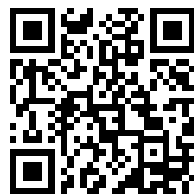

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Where to Purchase Farm Implements,
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VOL. III.

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PREFACE.

This is the third edition of the **FARM IMPLEMENT NEWS BUYER'S GUIDE**. The other editions, notwithstanding some defects, were received by the implement trade, both manufacturers and dealers, with even more favor than we had reason to expect. In preparing the 1891 edition we have followed the same general plan. Some new classifications have been added and many new names inserted.

We desire to renew our request that manufacturers and dealers write us criticisms of the classifications or corrections for the lists. In this way only can we hope to make the book correct and complete.

We wish to return thanks to the manufacturers and dealers for their liberal patronage, and to the manufacturers for furnishing their reports with promptness and care.

We shall continue to issue the **BUYER'S GUIDE** the first of each year.

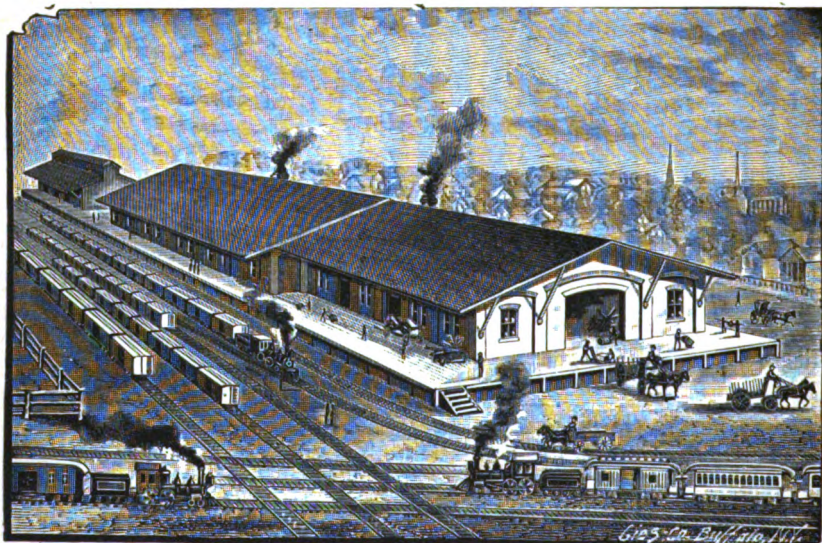
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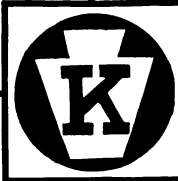
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Lockport Wire Fence Company, Lockport, Ill.

Munson Manufacturing Company, Rockford, Ill.

Northwestern Barb Wire Company, Sterling, Ill.

Hawkeye Steel Barb Fence Company, Burlington, Ia.

Empire Manufacturing Company, Keokuk, Ia., Empire.

Iowa Barb Steel Wire Company, Marshalltown, Ia.

Washburn & Moen Manufacturing Company, Worcester, Mass.

Buck-Thorn Fence Company, Trenton, N. J., Buck-Thorn solid steel barbed fencing

Iowa Barb Wire Company, New York, N. Y.

Cincinnati Barb Wire Fence Company, Cincinnati, O.

Cleveland Barb Fence Company, Cleveland, O.

Ohio Steel Barb Wire Fence Company, Cleveland, O.

Gautier Steel Department of Cambria Iron Company, Johnstown, Pa.

Oliver & Roberts Wire Company, Ltd., Pittsburgh, Pa.

H. B. Scutt & Co., Ltd., Pittsburgh, Pa.

Janesville Barb Wire Company, Janesville, Wis.

STEEL NETTING FOR FENCES, ETC.

Expanded Metal Company, 60 W. Monroe street, Chicago, Ill., for fences, gates, grape arbors, etc.

FARM GATE HANGERS.

Rice & Whitacre Manufacturing Company, 47 S. Canal street, Chicago, Ill., Triumph. See index to ads.

J. H. Denham & Co., St. Clairsville, O., Noxemall.

Racine Malleable & Wrought Iron Company, Racine, Wis.

BINDER TWINE.

Empire Cordage Company, Champaign, Ill., Red Elephant hemp.

William Deering & Co., Chicago, Ill., Deering. See page 18.

Peoria Cordage Company, Peoria, Ill.

Lehman, Kraus & Rosenthal, Peru, Ind.

Kentucky River Mills, Frankfort, Ky., hemp, manila and sisal.

Boston Cordage Company, Boston, Mass.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

Elizabethport Cordage Co.

MANUFACTURERS OF THE CELEBRATED



BINDER TWINE



Also Cordage of Every Description,

MANILA, SISAL, JUTE,

Fodder Yarn, Lath Yarn, Hay-
Fork Ropes, Paper Twines.

No. 46 South Street,

NEW YORK.



—WE MAKE THE—

Horse Shoe Spring Tooth Harrow,
Farmers Friend Planter and Check
Rower,

Farmers Friend and Ohio Corn Drills,
Farmers Friend Cultivators,
Farmers Friend Grain Drills,
Beck Hay Rake and Loader.

L. WATERBURY & CO.

Manufacturers of

Binder Twine

AND ROPE.

Offices, 132 and 134 Front street,

NEW YORK.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

BINDER TWINE (Continued).

Pearson Cordage Company, Boston, Mass.
 Plymouth Cordage Company, North Plymouth, Mass., Plymouth.
 Chelsea Jute Mills, 319 Broadway, New York, N. Y., Arrow Brand.
 Dolphin Manufacturing Company, 110 Worth street, New York, N. Y., Dolphin.
 L. Waterbury & Co., 132 Front street, New York, N. Y. See page 20.
 The Lawrence Rope Works, 160 Front street, New York, N. Y.
 Lipman & Co., 39 Worth street, New York, N. Y. (Works, Dundee, Scotland),
 Our Pride.
 Elizabethport Cordage Company, 46 South street, New York, N. Y., Diamond E.
 See page 20.
 National Cordage Company, 134 Front street, New York, N. Y.
 Travers Brothers, 107 Duane street, New York, N. Y.
 The Tucker & Carter Cordage Company, New York, N. Y.
 William Wall's Sons, New York, N. Y.
 Aultman, Miller & Co., Akron, O.
 Jno. Bonte's Sons Company, Cincinnati, O.
 Bradley Twine & Cordage Works, Dayton, O.
 Middletown Twine Company, Middletown, O.
 Hooven & Allison, Xenia, O.
 Field Cordage Company, Xenia, O.
 Xenia Twine & Cordage Company, Xenia, O.
 Bentley & Gerwig, New Brighton, Pa.
 E. R. Artman & Co., Philadelphia, Pa.
 E. H. Fitler & Co., Philadelphia, Pa.
 Thos. Jackson & Co., Reading, Pa.

BARREL CARTS.

Daley Manufacturing Company, De Kalb, Ill. Daley combination hand and barrel.
 J. D. Lahman & Co., Franklin Grove, Ill., Daisy.
 Sandwich Enterprise Company, Sandwich, Ill., Handy. See index to ads.
 Sandwich Manufacturing Company, Sandwich, Ill., Sandwich.
 A. S. Todd, Sterling, Ill.
 Abram Ellwood, Sycamore, Ill., Ellwood's.
 E. S. & F. Bateman, Grenloch, N. J.
 Hauck & Comstock, Mechanicsburgh, Pa. See index to ads.
 Belle City Manufacturing Company, Racine, Wis., Belle City.
 E. H. Pease Manufacturing Company, Racine, Wis. See index to ads.

WIRE STRETCHERS.

Borden, Selleck & Co., Chicago, Ill.
 Fretress Barb Wire Fence Company, East Dubuque, Ill.
 Hunt, Helm & Ferris, Harvard, Ill., Star.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

WIRE STRETCHERS (Continued).

Abram Ellwood, Sycamore, Ill., Little Giant, Little Giant Junior, Big Giant, Ellwood's Lever.
 Ætna Novelty Works (E. E. Sickler, prop.), Indianapolis, Ind., Ætna.
 Sedgwick Bros. Company, Richmond, Ind., Sedgwick.
 Cleaveland Fence Company, Indianapolis, Ind., Cleaveland Automatic, Cleaveland wire lock.
 Buck-Thorn Fence Company, Trenton, N. J.
 Cincinnati Barb Wire Fence Company, Cincinnati, O.
 C. Wight & Son, Dayton, O., Little Giant.
 Superior Manufacturing Company, Martinsville, O., Superior.
 L. W. Fillebrown & Son, Piqua, O.
 D. H. Bausman, Bausman, Pa., The Complete.
 Racine Malleable & Wrought Iron Company, Racine, Wis., Perry, Racine tighteners.
 See index to ads.

WIRE FENCING, WIRE AND PICKET FENCING.

J. A. Hunnicutt, Athens, Ga.
 W. J. Adam, Joliet, Ill. See index to ads.
 Enterprise Foundry Company (Ellis & Helfenberger, props.), Indianapolis, Ind., Champion.
 Riter Metallic Picket Fence Company, Liberty, Ind.
 Elliott, Reid & Co., Richmond, Ind., Richmond.
 Sedgwick Bros. Company, Richmond, Ind., steel wire.
 Kitzelman Bros., Ridgeville, Ind., Kitzelman's Improved.
 Rickards Fence Company, Keokuk, Ia., Rickards' steel picket and combination wire and wood.
 National Iron Fence Company, 173 Broadway, New York, N. Y.
 Buck-Thorn Fence Company, Trenton, N. J., solid steel.
 H. L. Bennett & Co., Westerville, O., Hoosier.
 Sullivan Manufacturing Company, Anderson, S. C.

FENCE POSTS.

John G. Smolley, Connersville, Ind., T steel fence posts.
 Cleaveland Fence Company, Indianapolis, Ind., Cleaveland Iron.
 Ewald Over, Indianapolis, Ind.
 Enterprise Foundry Company (Ellis & Helfenberger, props.), Indianapolis, Ind., iron posts; combination wood and iron posts.
 National Iron Fence Company, 173 Broadway, New York, N. Y.
 Eureka Fence Machine Company, New Paris, O., Eureka.

FARM GATES.

M. C. Jackson, Florin, Cal., Jackson.
 Star Gate Company, Abingdon, Ill., Star.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

FARM GATES (Continued).

Expanded Metal Company, 60 W. Monroe street, Chicago, Ill.
 Wm. M. Clow & Co., East Wheatland, Ill.
 D. T. Weed, Lanark, Ill.. Webber's Automatic.
 Ewald Over, Indianapolis, Ind., Carter's.
 Sedgwick Bros. Company, Richmond, Ind., Sedgwick, Automatic.
 Keokuk Wind Engine Company, Keokuk, Ia., Frits Patent, Automatic.
 Ottawa Gate Manufacturing Company, Ottawa, O., Excelsior, Oak.
 Philip Ramming, Plymouth, Wis., Automatic.

IRON FENCING.

Seward & Co., Bloomington, Ind.
 Cleaveland Fence Company, Indianapolis, Ind., Cleaveland.
 Enterprise Foundry Company (Ellis & Helfenberger, props.), Indianapolis, Ind.
 Sedgwick Bros. Company, Richmond, Ind.
 Novelty Iron Works, Dubuque, Ia. See index to ads.
 F. B. Ogden, Republic, O.
 Champion Iron Fence Company, Kenton, O.
 Mast, Foos & Co., Springfield, O., Buckeye.
 Geo. E. Bechtolt, Urbana, O.
 E. B. Marsh & Bro., Snyder'sville, Pa.

BARN DOOR HANGERS.

Abram Ellwood, Sycamore, Ill., Ellwood.
 Loudon Machinery Company, Fairfield, Ia., Everlasting.
 Jas. L. Haven Company, Cincinnati, O.
 Eagle Manufacturing Company, Appleton, Wis., Eagle Anti-Friction.

CORDAGE.

Boston Cordage Company, Boston, Mass.
 Plymouth Cordage Company, North Plymouth, Mass.
 Mt. Vernon Company, Baltimore, Md. See page 24.
 Dolphin Manufacturing Company, 110 Worth street, New York, N. Y., Dolphin.
 Elizabethport Cordage Company, 46 South street, New York, N. Y. See page 20.
 National Cordage Company, 134 Front street, New York, N. Y.
 Travers Brothers, 107 Duane street, New York, N. Y., Peerless, Liberty, Silver Lake
 L. Waterbury & Co., 132 and 134 Front street, New York, N. Y. See page 20.
 Lawrence Rope Works, 160 Front street, New York, N. Y.

BARLEY FORKS.

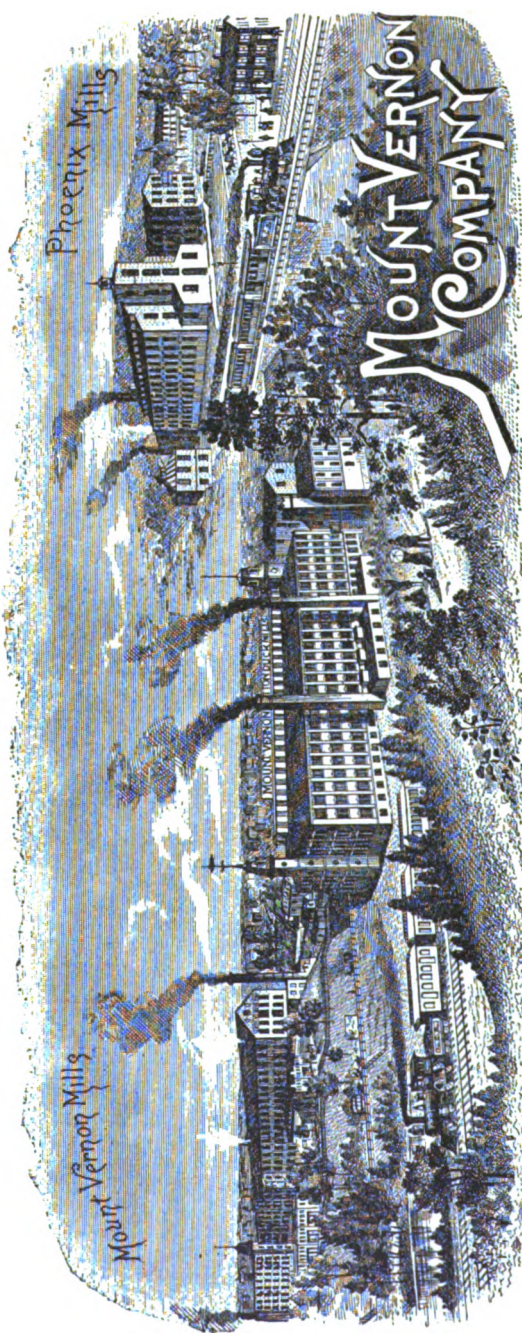
Iowa Farming Tool Company, Ft. Madison, Ia.
 Richard W. Montross, Galien, Mich., Wolverine.
 Grant Fan-Mill & Cradle Company, Melrose, N. Y., Bryan's.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

MOUNT VERNON COMPANY, - Baltimore, Md.

MANUFACTURERS OF

Cotton Sail Duck, ALL NUMBERS, HARD, MEDIUM and SOFT.



DUCK FOR OVERALLS, COLORED OR TINTED, GREY, PAPER-MILL, FELTS AND OIL PRESS CLOTHS, CRACKER MACHINE APRONS, COLORED CANVAS OF ALL NUMBERS AND SHADES, COTTON ROPE, SEAMLESS BAGS, COTTON TWINES, YARNS AND WARPS, SEINE AND SAIL TWINE. U. S. ARMY DUCK, 7, 8, 9, 10, 12 and 15 oz. AWNING STRIPES. BELTING AND HOSE DUCK, HYDRAULIC DUCK, 1 naught to 15 naughts. COTTON CANVAS OF ALL NUMBERS, 4 to 132 inches wide, FOR DECK, CAR, TRUCK, WAGON AND TRUNK COVERING, MACHINE APRONS AND OTHER PURPOSES.

Duck for Harvesters and Manufacturers of all Agricultural Implements a Specialty.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

BRICK AND TILE MACHINERY.

Anderson Foundry & Mach. Works, Anderson, Ind., Chief, New Departure.
 Richmond Machine Works, Richmond, Ind.
 Nolan, Madden & Co., Rushville, Ind., Hoosier.
 H. Brewer & Co., Tecumseh, Mich.
 P. K. Dederick & Co., Albany, N. Y., Champion.
 Frey-Sheckler Company, Bucyrus, O., Giant, No. 10, Acme, Centennial, Mascot,
 Eagle brick machines; Acme, Centennial, Mascot tile machines.
 Straub Machinery Company, Cincinnati, O., Grant, Leviathan.
 E. M. Freese & Co., Plymouth, O., A, A Special, B, B Special and D. See index
 to ads.
 Tiffin Agricultural Works, Tiffin, O., Old Reliable, Tiffin Automatic.
 Wellington Machine Company, Wellington, O., New Quaker.
 Chambers Brothers Company, Philadelphia, Pa.
 Kohler, Hayssen & Stehn Manufacturing Company, Sheboygan, Wis.

BAG TRUCKS AND HOLDERS.

Borden, Selleck & Co., Chicago, Ill.
 Sandwich Enterprise Company, Sandwich, Ill., Enterprise holders. See index to ads.
 The I. X. L. Pump Company, Goshen, Ind.
 N. P. Bowsher, South Bend, Ind., plain and with sack holder.
 Novelty Iron Works, Dubuque, Ia. See index to ads.
 Hagerstown Iron Works, Hagerstown, Md.
 Wilder Manufacturing Company, Monroe, Mich.
 Dowagiac Manufacturing Company, Dowagiac, Mich., Handy.
 Thos. Peppler, Hightstown, N. J., Climax.
 F. B. Ogden, Republic, O., Gem.
 G. S. Foos Company, Springfield, O.
 Hauck & Comstock, Mechanicsburgh, Pa. See index to ads.
 E. H. Pease Manufacturing Company, Racine, Wis., Adams. See index to ads.

BROOM CORN PRESSES.

G. D. Colton & Co., Galesburgh, Ill., Climax.

BARLEY BEARDERS.

St. Johnsville Agricultural Works, St. Johnsville, N. Y. See index to ads.

BARLEY CRUSHERS.

Benicia Agricultural Works, Benicia, Cal., Benicia.

BONE MILLS.

Charles Kaestner & Co., 303 S. Canal street, Chicago, Ill.

CANE MILLS.

Van Winkle Gin & Machine Company, Atlanta, Ga., and Dallas, Tex.
 Winship Machine Company, Atlanta, Ga.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

CANE MILLS (Continued).

Schofield's Iron Works, Macon, Ga., Hero.

Seward & Co., Bloomington, Ind.

Chapman & Co., Madison, Ind., Improved Victory.

Brennan & Co. South Western Agricultural Works, Louisville, Ky., Kentucky, Falls City, Gem.

Pearl River Foundry & Agricultural Works (Chas. Williams, prop.), Jackson, Miss., Cyclone.

J. A. Field & Co., St. Louis, Mo., Star, Gold Basis, Prairie Queen, Forest King.

Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Horizontal, Invincible, Missouri.

Geo. K. Oyler & Co., St. Louis, Mo., Gold Medal, G. K. O., Economist, Pioneer, Stubbs; Oyler's Plantation, Planter's Choice, Western, Pearl.

Blymyer Iron Works Company, Cincinnati, O., horse and steam power, Victor, Niles, Great Western.

James L. Haven Company, Cincinnati, O., Economist, Pioneer, New South, Lone Star.

H. W. Hescok, Hubbard, O., Pioneer, Economist, Champion.

Chattanooga Plow Company, Chattanooga, Tenn.

Ronceverte Machine & Foundry Company, Ronceverte, W. Va., Little Giant.

CIDER PRESSES.

Sucker State Drill Company, Belleville, Ill., St. Clair.

Thomas & Albright, Goshen, Ind., Hydraulic.

Ewald Over, Indianapolis, Ind., Ragan's.

Ford Giant Press Company, Louisville, Ky., Little Giant.

E. S. & F. Bateman, Grenloch, N. J.

Hercules Lever Jack Company, Livingston, N. J., Tichenor's hand power.

New Jersey Agricultural Works, Trenton, N. J., Butterworth Champion.

H. N. Hubbard, 96 Chambers street, New York, N. Y., Hubbard's.

Boomer & Boschert Press Company, Syracuse, N. Y.

Victor Steam Evaporator Company, 118 W. Seventh street, Cincinnati, O.

Hydraulic Press Manufacturing Company, Mt. Gilead, O.

Klatz & Kromer Machine Company, Sandusky, O.

Sandusky Machine & Agricultural Works, Sandusky, O., Hero.

BEE HIVES, HONEY BOXES AND BEE SUPPLIES.

Charles Dadant & Son, Hamilton, Ill.

Wm. McCune & Co., Sterling, Ill.

A. G. Hill, Kendallville, Ind., New American Honey Boxes.

D. Stutzman, Ligonier, Ind.

Aspinwall Manufacturing Company, Three Rivers, Mich. See index to ads.

Lyon Iron Works, Greene, N. Y.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

BEE HIVES, HONEY BOXES AND BEE SUPPLIES (Continued).

W. T. Falconer Manufacturing Company, Jamestown, N. Y., Falcon, Simplicity.
Wyman L. Edson, Union Center, N. Y.

CIDER MILLS.

Higganum Manufacturing Corporation, Higganum, Conn., Farmers' Favorite.
Sucker State Drill Company, Belleville, Ill., St. Clair.
Keystone Manufacturing Company, Sterling Ill., Keystone Senior, Keystone Medium. See index to ads.
Brennan & Co. South Western Agricultural Works, Louisville, Ky., Junior, Senior, Medium, Excelsior, Kentucky, Kentucky Buckeye.
Whitman Agricultural Works, Auburn, Me., Monitor Senior, Medium and Junior.
Whitman Agricultural Company, St. Louis, Mo., Americus Junior, Medium and Senior, Whitman's Missouri Valley Junior and Senior.
New Jersey Agricultural Works, Trenton, N. J., Butterworth Jersey.
Ames Plow Company, Boston, Mass., and New York, N. Y., National.
H. N. Hubbard, 98 Chambers street, New York, N. Y., Hutchinson.
Boomer & Boschert Press Company, Syracuse, N. Y.
Advance Manufacturing Company, Hamilton, O., American.
Hocking Valley Manufacturing Company, Lancaster, O.
Superior Drill Company, Springfield, O., Improved Champion, Improved Buckeye.
P. P. Mast & Co., Springfield, O., Buckeye.
James L. Haven Company, Cincinnati, O., Haven's I. X. L.
Tiffin Agricultural Works, Tiffin, O., Improved Favorite, three sizes.
Hauck & Comstock, Mechanicsburgh, Pa., Triumph. See index to ads.
S. R. White & Bro., Norfolk, Va., Excelsior, Hutchinson.
Look & Lincoln, Marion, Va.
H. M. Smith & Co., Richmond, Va., Hutchinson, Old Dominion, Virginia.

GIN SAW SHARPENERS.

Atlanta Machinery Company, Atlanta, Ga., Duplex.
Munger Machine Company, Dallas, Tex.

COTTON PLANTERS.

H. D. Terrell & Co., Conyers, Ga.
Towers & Sullivan Manufacturing Company, Rome, Ga., Brooks.
David Bradley Manufacturing Company, Chicago, Ill., Champion.
Deere & Mansur Company, Moline, Ill., Banner and Gypsy.
Moline Plow Company, Moline, Ill., Texas.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia. See index to ads.

Pattee Plow Company, Monmouth, Ill., Challenge.
Weir Plow Company, Monmouth, Ill.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

COTTON PLANTERS (Continued).

Rock Island Plow Company, Rock Island, Ill., New Byers.
Emerson, Talcott & Co., Rockford, Ill., Standard. See index to ads.
Sandwich Enterprise Company, Sandwich, Ill., Winner. See index to ads.
B. F. Avery & Sons, Louisville, Ky., Avery Champion, Avery Harris.
A. G. Perry, Coldwater, Miss.
T. J. Spencer, Hernando, Miss.
Pearl River Foundry & Agricultural Works (Chas. Williams, prop.), Jackson, Miss.
A. H. Kirkland, Jackson, Miss.
J. A. Field & Co., St. Louis, Mo., Favorite.
S. A. Millard Manufacturing Company, Clayville, N. Y., Acme.
North Carolina Plow Company, Cary, N. C., Harrison.
Edgecombe Agricultural Works, Tarborough, N. C., Edgecombe.
A. C. Evans Manufacturing Company, Springfield, O., Evans.
Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa., Farquhar's.
Sullivan Manufacturing Company, Anderson, S. C., Brooks, Elliott.
F. W. Schuerenberg, Brenham, Tex.
G. A. Kelly Manufacturing Company, Kellyville, Tex., Moon.
S. R. White & Bro., Norfolk, Va., Foster.
Wrenn, Whitehurst & Co., Norfolk, Va., Eclipse.
Winchester & Partridge Manufacturing Company, Whitewater, Wis., Lone Star.

COTTON SWEEPS.

Roelker Plow Company, Evansville, Ind.
Hartsville Plow Company, Hartsville, S. C., Hartsville.

COTTON SEED HULLERS.

Van Winkle Gin & Machine Company, Atlanta, Ga., Van Winkle.
L. J. Miller, Cincinnati, O., Nonpareil huller and separator combined.
Livermore Foundry & Machine Company, Memphis, Tenn., Wells, Champion.
Diamond Huller & Oil Company, Memphis, Tenn., Diamond.

COTTON SEED OIL MILLS.

The Huey Manufacturing Company, Wilmington, Del.
Van Winkle Gin & Machine Company, Atlanta, Ga., and Dallas, Tex., Van Winkle.
Cardwell Machine Company, Richmond, Va.

COTTON GINS, FEEDERS AND CONDENSERS.

Smith Sons Gin & Machine Company, Birmingham, Ala., Smith Improved, Smith Huller.
Daniel Pratt Gin Company, Prattville, Ala.
Brown Cotton Gin Company, New London, Conn., Improved Brown.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

COTTON GINS, FEEDERS AND CONDENSERS (Continued).

Van Winkle Gin & Machine Company, Atlanta, Ga., and Dallas, Tex., Van Winkle.
 Winship Machine Company, Atlanta, Ga.
 Southern Agricultural Works, Atlanta, Ga.
 O. H. Miller, Fort Valley, Ga., Centennial.
 Massey Cotton Gin Works, Macon, Ga., Excelsior.
 Faught-Deering Company, Louisville, Ky.
 Gullett Gin Company, Amite, La., Magnolia.
 New Orleans Machinery Company, Ltd., New Orleans, La.
 Eagle Cotton Gin Company, Bridgewater, Mass., Eagle.
 Carver Cotton Gin Company, East Bridgewater, Mass.
 C. P. Hewes, Edwards, Miss., Hewes.
 Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Elliott Douglas,
 Phoenix.
 Progress Manufacturing Company, Meridian, Miss.
 Hall Self-Feeding Cotton Gin Company, Sing Sing, N. Y.
 Frick Company, Waynesborough, Pa., Eclipse.
 Livermore Foundry & Machine Company, Memphis, Tenn.
 Milburn Gin & Machine Company, Memphis, Tenn., Milburn, Eclipse, Huller,
 Crowson.
 Smiley, Smith & Co., Memphis, Tenn., Eclipse.
 Avery Gin Company, Memphis, Tenn.
 W. N. Webb & Son, Pulaski, Tenn.
 P. R. Dawson, Brenham, Tex., Dawson.
 R. K. Chatham & Co., Bryan, Tex., Chatham.
 P. H. Cullen, Corsicana, Tex.
 Munger Machine Company, Dallas, Tex.
 Swan Bros. & Moore, Dallas, Tex.
 Longview Kelly Plow Company, Longview, Tex., Daniel Hess.
 S. R. White & Bro., Norfolk, Va., Stonewall.

COTTON SCRAPERS.

Towers & Sullivan Manufacturing Company, Rome, Ga., Mitchell.
 Roelker Plow Company, Evansville, Ind.
 Wm. Clore's Sons, Rising Sun, Ind.
 Thos. Meikle & Co., Louisville, Ky.
 J. L. Slocumb, Edwards, Miss., Eclipse attachment.

HULLER COTTON GINS.

Gullett Gin Company, Amite, La., Magnolia.
 Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Elliott Douglas.
 Munger Machine Company, Dallas, Texas.

COTTON BASKETS.

J. A. Hunnicutt, Athens, Ga., Excelsior.

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COTTON DRILLS.

Lehr Agricultural Company, Fremont, O., Echo.
James Campbell, Harrison, O.

COTTON PRESSES.

Barbour Machine Works, Anniston, Ala.
Winship Machine Company, Atlanta, Ga.
Van Winkle Gin & Machine Company, Atlanta, Ga., and Dallas, Tex., VanWinkle
Southern Agricultural Works, Atlanta, Ga.
Schofield's Iron Works, Macon, Ga., Empire.
R. D. Cole Manufacturing Company, Newnan, Ga. Mastodon.
Ford Giant Press Company, Louisville, Ky.
Cone Baling Press Company, 206 N. Halliday street, Baltimore, Md.
A. J. Hyde, Meridian, Miss.
Progress Manufacturing Company, Meridian, Miss.
Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Reeder, Planters,
Hercules.
Liddell Company, Charlotte, N. C., Boss, hand presses, direct acting steam presses.
P. K. Dederick & Co., Albany, N. Y.
Hercules Lever Jack Company, Irvington, N. J., Tichenor's hand power.
Sullivan Manufacturing Company, Anderson, S. C., Sullivan.
Avery Gin Company, Memphis, Tenn.
Livermore Foundry & Machine Company, Memphis, Tenn.
Milburn Gin & Machine Company, Memphis, Tenn., Hydraulic.
Munger Machine Company, Dallas, Tex.
Texas Cotton Press Company, Dallas, Tex., Boss two screw presses, Liddell's steam
cotton presses.
Cardwell Machine Company, Richmond, Va., Little Giant hydraulic presses.

COTTON SEED SEPARATORS.

VanWinkle Gin & Machine Company, Atlanta, Ga., and Dallas, Tex., Clarke cot-
ton cleaners.
L. J. Miller, Cincinnati, O., huller and separator combined.
Diamond Huller & Oil Company, Memphis, Tenn., for plantation use.

COTTON SEED CRUSHERS.

Barbour Machine Works, Anniston, Ala.
The Huey Manufacturing Company, Wilmington, Del.
Van Winkle Gin & Machine Company, Atlanta, Ga., Van Winkle.
L. J. Miller, Cincinnati, O., Nonpareil.
Sullivan Manufacturing Company, Anderson, S. C., Climax.
Chattanooga Plow Company, Chattanooga, Tenn.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

CORN DRILLS.

Hapgood Plow Company, Alton, Ill.

Hayes Pump & Planter Company, Galva, Ill., Hayes one horse.

Moline Plow Company, Moline, Ill., Perfect, Carson-Campbell.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia. See index to ads.

Weir Plow Company, Monmouth, Ill.

Pekin Plow Company, Pekin, Ill., I. X. L.

Peru Plow & Wheel Company, Peru, Ill., one horse.

Emerson, Talcott & Co., Rockford, Ill., Standard one horse. See index to ads.

Rock Island Plow Company, Rock Island, Ill., Rock Island.

Sandwich Enterprise Company, Sandwich, Ill., The Winner. See index to ads.

Keystone Manufacturing Company, Sterling, Ill., Keystone, Combination, One Horse, Keystone ensilage drills. See page 18.

Rude Bros. Manufacturing Company, Liberty, Ind., Indiana.

Hoosier Drill Company, Richmond, Ind., Hoosier.

Wayne Works, Richmond, Ind., Richmond.

Star Drill Company, Rushville, Ind., Star one and two horse.

Challenge Corn Planter Company, Grand Haven, Mich., Challenge Leader, Challenge one horse.

St. Paul Plow Works, St. Paul, Minn., Golden West.

J. A. Field & Co., St. Louis, Mo.

Empire Drill Company, Shortsville, N. Y., Empire combined and single. See index to ads.

Farmers Friend Manufacturing Company, Dayton, O., Farmers Friend and Ohio. See page 20.

McSherry Manufacturing Company, Dayton, O., McSherry.

James Campbell (Pioneer Drill Works), Harrison, O., one horse, plain and fertilizer.

H. P. Deuscher Company, Hamilton, O., Barbour one horse.

Hocking Valley Manufacturing Company, Lancaster, O.

A. C. Evans Manufacturing Company, Springfield, O., Evans one horse.

CORN PLANTERS.

Smith Sons Gin & Machine Company, Birmingham, Ala., Nelson.

F. B. Tait & Co., Decatur, Ill., Tait's Jo-Dandy.

Pattee Plow Company, Monmouth, Ill., Challenge.

Haworth & Sons, Decatur, Ill.

Chambers, Bering, Quinlan Company, Decatur, Ill., U. S. combined check row.

G. D. Colton & Co., Galesburgh, Ill., New Deal.

Geo. W. Brown & Co., Galesburgh, Ill., Excelsior, Horse-shoe.

Hayes Pump & Planter Company, Galva, Ill., Hayes check row planters, Hayes drill and check row.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

CORN PLANTERS (Continued).

Moline Plow Company, Moline, Ill., Moline Champion.

Branch houses—Moline Flow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia. See index to ads.

Deere & Mansur Company, Moline, Ill., Deere.

Avery Planter Company, Peoria, Ill., Monarch, New Avery.

Jas. Selby & Co., Peoria, Ill., Union, Western.

Hearst, Dunn & Co., Peoria, Ill.

Barlow Corn Planter Company, Quincy, Ill., Barlow, Vandiver-Barlow. See index to ads.

Emerson, Talcott & Co., Rockford, Ill., Standard. See index to ads.

Skandia Plow Company, Rockford, Ill., Skandia.

Rockford Manufacturing Company, Rockford, Ill.

Rockford Plow Company, Rockford, Ill., Rockford, Pick Up.

Rock Island Plow Company, Rock Island, Ill., New Byers.

Sandwich Enterprise Company, Sandwich, Ill., The Winner. See index to ads.

Keystone Manufacturing Company, Sterling, Ill., Junior, Galt, Keystone Rotary, Combination. See page 18.

Wayne Works, Richmond, Ind., Richmond.

Ray Implement Company, Burlington, Ia., Orchard City rotary drop.

B. F. Avery & Sons, Louisville, Ky., Louisville.

Holt & Pitts, Harrison, Me., Holt.

Hagerstown Iron Works, Hagerstown, Md., U. S.

A. McKenney, Middleboro, Mass.

Ames Plow Company, Boston, Mass., and New York, N. Y., Boston, Improved Billings one horse one row.

Challenge Corn Planter Company, Grand Haven, Mich., Challenge Leader.

Aspinwall Manufacturing Company, Three Rivers, Mich., Aspinwall. See index to ads.

J. A. Field & Co., St. Louis, Mo., Favorite.

Eclipse Corn Planter Company, Enfield, N. H., Eclipse corn planter and fertilizer distributor combined.

Ohio Cultivator Company, Bellevue, O., Stahl.

Farmers Friend Manufacturing Company, Dayton, O., Farmers Friend. See page 20.

H. P. Deuscher Company, Hamilton, O., Hamilton.

James Campbell, Harrison, O.

Hocking Valley Manufacturing Company, Lancaster, O.

A. C. Evans Manufacturing Company, Springfield, O., Evans.

Kelly & Sons, Troy, O., Kelly.

McCalmont & Co., Bellefonte, Pa., Acme, single rowed with fertilizer attachment.

Columbia Agricultural Works, Columbia, Pa.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

CORN PLANTERS (Continued).

- A. Buch & Sons, Elizabethtown, Pa.
 J. H. Albright, Laurelton, Pa., double row.
 Spangler Manufacturing Company, York, Pa., Spangler.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa., Farquhar's Keystone.
 Hench & Dromgold, York, Pa., Hench's Keystone, double row with fertilizer attachments.
 H. L. Neuman, York, Pa., York.
 F. W. Schuerenberg, Brenham, Tex.
 G. A. Kelly Manufacturing Co., Kellyville, Tex., Moon.
 S. R. White & Bro., Norfolk, Va., Centennial, Eureka, Sinclair.
 C. Billups, Son & Co., Norfolk, Va., Sinclair, Centennial.
 Wrenn, Whitehurst & Co., Norfolk, Va., Ives.
 Cardwell Machine Company, Richmond, Va., Cardwell's, with fertilizer attachment.
 H. M. Smith & Co., Richmond, Va., Eureka, Centennial, Virginia.
 Winchester & Partridge Manufacturing Company, Whitewater, Wis., ensilage corn planter.
 Fuller & Johnson Manufacturing Company, Madison, Wis., Stark's force drop.

CHECK ROWER WIRE.

- Robert Faries, Decatur, Ill., Barlow patent.
 Joliet Strowbridge Company, Joliet, Ill.
 Gautier Steel Department, Cambria Iron Company, Johnstown, Pa.

HAND CORN PLANTERS.

- William Colwell (Ottawa Plow Works), Ottawa, Ill., for sod corn.
 Collins Plow Company, Quincy, Ill., Barr rotary drop. See index to ads.
 Keeney & Harrison, Rock Falls, Ill., Empire rotary, King of the Field, Champion, Quadrant plunger.
 H. F. Batcheller & Son, Rock Falls, Ill., Batcheller.
 Emerson, Talcott & Co., Rockford, Ill., Jones. See index to ads.
 Bluffton Manufacturing Company, Bluffton, Ind., Indian Rotary, American slide.
 Horton Manufacturing Company, Ft. Wayne, Ind., American Superb.
 Lindsay Planter Company, La Fayette, Ind., Lindsay.
 Metcalfe Manufacturing Company, Eddyville, Ky., Arnold.
 S. P. Babcock, Adrian, Mich., Babcock.
 F. Van Doren, Adrian, Mich.
 A. G. Perry, Coldwater, Miss.
 T. J. Spencer, Hernando, Miss.
 P. F. Randolph, Bernardsville, N. J.
 Wiard Plow Company, Batavia, N. Y., Wiard automatic hand corn and bean planter.
 W. Eddy & Sons, Greenwich, N. Y.
 O. H. Davis, Ithaca, N. Y., Buckeye corn planter with pumpkin seed attachment.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

HAND CORN PLANTERS (Continued).

The Chautauqua Planter Company, Jamestown, N. Y., Chautauqua.

Vandergrift Manufacturing Company, Jamestown, N. Y., American.

Wallace Fisk, Morganville, N. Y., Fisk's automatic.

I. D. King, Orleans, N. Y., Northwestern.

Jerome S. Davis, Spencer, N. Y., Buckeye.

Jerry Bros., West Chazy, N. Y., Hoag's.

Hughes & Smythe, Galena, O., Victor, Planet, Victor Rotary, Planet Rotary, Fertilizer.

Eagle Machine Company, Lancaster, O., Eagle, Buckeye.

Krauss Brothers, Geryville, Pa., Kraussdale.

S. M. Macomber, Adams, Vt., Macomber's corn and bean planters.

A. C. Kent, Janesville, Wis., Triumph with pumpkin seed attachment.

Winship Manufacturing Company, Racine, Wis., Champion with pumpkin seed attachment. See index to ads.

CHECK ROWERS.

F. B. Tait & Co., Decatur, Ill., Tait's wire.

Haworth & Sons, Decatur, Ill., wire, steel bar, wood bar, rope No. 1.

Chambers, Bering, Quinlan Company, Decatur, Ill., Barnes' and C. B. & Q.

Geo. W. Brown & Co., Galesburgh, Ill., Brown.

Joliet Strowbridge Company, Joliet, Ill.

Deere & Mansur Company, Moline Ill., Deere.

G. D. Colton & Co., Galesburgh, Ill., New Deal.

Hayes Pump & Planter Company, Galva, Ill., Kewanee wood bar, Kewanee steel bar.

Jordan & Hamilton, Ottawa, Ill., stop gear.

BARLOW CORN PLANTER.

**Shows the Corn Five Hills in advance of the place it
is to be deposited.**

The Barlow Corn Planter has the most simple and reliable dropping device in use.
Has Metal Wheels, Hand Lock Lever and all features

ESSENTIAL TO A PERFECT WORKING PLANTER.

We furnish also Cover Shovels and Reversible wheels on special order. The Vandiver-Barlow Planter has the features of the Barlow Planter and in addition has

GAUGE WHEELS AND COVER SHOVELS.**BARLOW CHECK ROWER
WITH UPRIGHT TENSION ANCHOR.**

We recommend our Check Rower to the trade as being best suited for work on our planters.
Address

BARLOW CORN PLANTER COMPANY, - Quincy, Ill.

Successors to THE VANDIVER CORN PLANTER CO.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

CHECK ROWERS (Continued).

Avery Planter Company, Peoria, Ill., Regular, Special, New Avery.
 James Selby & Co., Peoria, Ill., Union.
 Barlow Corn Planter Company, Quincy, Ill., Barlow. See page 94.
 Hearst, Dunn & Co., Peoria, Ill.
 Skandia Plow Company, Rockford, Ill., Skandia.
 Emerson, Talcott & Co., Rockford, Ill., Standard.
 Rock Island Plow Company, Rock Island, Ill., Rock Island.
 Keystone Manufacturing Company, Sterling, Ill., Keystone. See page 18.
 Richmond Check Rower Company, Richmond, Ind.
 Ray Implement Company, Burlington, Ia., Orchard City.
 Challenge Corn Planter Company, Grand Haven, Mich., Challenge.
 Western Manufacturing Company, Lincoln, Neb., Capital.
 Farmers Friend Manufacturing Company, Dayton, O., Farmers Friend. See page 20.
 H. P. Deuscher Company, Hamilton, O., Universal.
 A. C. Evans Manufacturing Company, Springeld, O., Evans.

CORN SHELLERS.

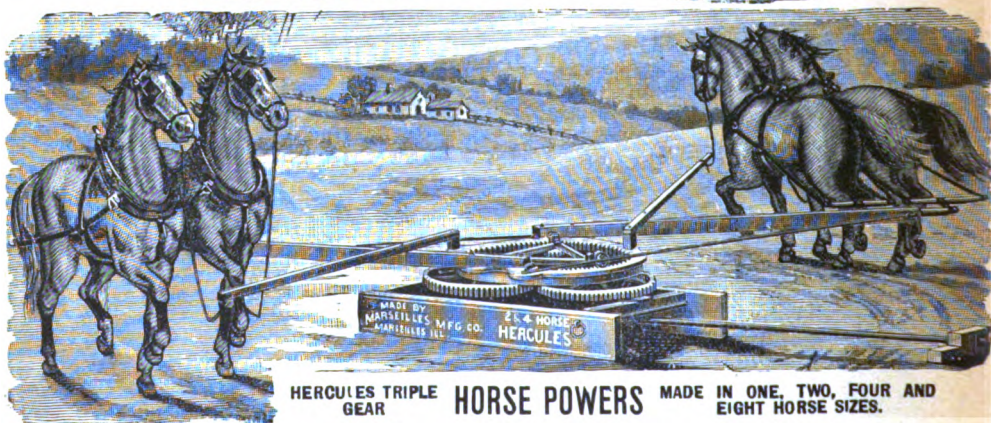
Higganum Manufacturing Corporation, Higganum, Conn., R. B. C., Silver Eagle Continental.
 Edw. Harrison Mill Co., New Haven, Conn.
 Geo. L. Grier & Son, Milford, Del.
 U. S. Wind Engine & Pump Company, Batavia, Ill., I. X. L. See index to ads.
 Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver
 & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Ma-
 chinery & Implement Company, Ft. Worth, Tex., Geo. G. Creamer, 80 S.
 Market street, Boston, Mass.
 Challenge Wind Mill & Feed Mill Company, Batavia, Ill.
 F. C. Austin Manufacturing Company, corner Carpenter street and Carroll avenue,
 Chicago, Ill., Austin.
 Chicago Feed Mill Company, 388 Wabash avenue, Chicago, Ill., Victor.
 Union Iron Works, Decatur, Ill., power shellers.
 Elgin Wind Power & Pump Company, Elgin, Ill., Centennial.
 Stover Manufacturing Company, Freeport, Ill., Ideal two hole, Tiger one hole.
 Geo. W. Brown & Co., Galesburgh, Ill., Knox.
 Joliet Manufacturing Company, Joliet, Ill., Eureka power shellers, Standard hand
 shellers.
 Marseilles Manufacturing Company, Marseilles, Ill., two, four, six and eight hole
Cyclone force feed power shellers; Diamond one hole, Favorite two hole hand
 shellers. See page 36.
 King & Hamilton Company, Ottawa, Ill., Gilman, Ottawa cylinder power.
 Kirkwood, Miller & Co., Peoria, Ill., K. M. & Co.'s Durby.
 Sandwich Manufacturing Company, Sandwich, Ill., Veteran, Prince, Corn King
 Junior, Sandwich-Adams.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

WE ARE MANUFACTURERS OF AND SOLICIT
YOUR ORDERS FOR

The Celebrated Marseilles-Adams POWER CORN SHELLERS

Of various sizes and descriptions.



"Diamond" and "Favorite" Hand Corn Shellers,
Riding, Walking or Combined Corn Cultivators,
Belt Geared or Windmill Feed Grinders,
The Splendid Solid Wheel Wind Mill for Pumping Purposes,
The Adams Section Wheel Wind Mills, either for Pumping or Rotary Power.

Address Correspondence and orders to

MARSEILLES MFG. CO., MARSEILLES,
LA SALLE CO., ILL., U. S. A.

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CORN SHELLERS (Continued).

Keystone Manufacturing Company, Sterling, Ill., Keystone six hole, four hole, two hole, X. L., Trump, power shellers; X. L., Keystone, Pony, Pet, Dude, hand shellers. See page 18.

Sterling Manufacturing Company, Sterling, Ill., Famous two hole.

Abram Ellwood, Sycamore, Ill., Tony.

Kratz Bros., Evansville, Ind.

Nordyke & Marmon Co., Indianapolis, Ind. See index to ads.

R. M. McGrath & Son, LaFayette, Ind., Champion, Farmer double cylinder.

Jas. G. Blythe, receiver for B. F. Dow & Co., Peru, Ind.

Brennan & Co. South Western Agricultural Works, Louisville, Ky., Dexter, Ten-Broeck, Kentucky, Virginia, Reading.

Whitman Agricultural Works, Auburn, Me., Prize Yankee.

Hagerstown Iron Works, Hagerstown, Md., U. S.

Taylor & Gale, Chicopee Falls, Mass., Virginia power shellers, Premium hand shellers.

Roberts, Throp & Co., Three Rivers, Mich., Cyrus Roberts.

Diamond Feed Mill Manufacturing Company, Owatonna, Minn., The Diamond.

Ames Plow Company, Boston, Mass., and New York, N. Y., Yankee, Boston, Southern, Western.

Hagerstown Iron Works, Hagerstown, Md., U. S. single and double.

Hagerstown Steam Engine & Machine Company, Hagerstown, Md., Empire.

Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., Premium, Lion, Right Hand.

Kent, Tower & Co., Grand Ledge, Mich., Kent's Eureka.

Ypsilanti Machine Works (Philo Ferrier & Son), Ypsilanti, Mich.

Pearl River Foundry & Agricultural Works (Chas. Williams, prop.), Jackson, Miss., Prairie.

Geo. K. Oyler & Co., St. Louis, Mo., Oyler, Rustic, Rural, Oyler's Pearl, Peony hand shellers; Rustic, Rural power shellers.

Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Vibrator shuck sheller.

J. A. Field & Co., St. Louis, Mo., Star hand and belt power.

Whitman Agricultural Company, St. Louis, Mo., Whitman's St. Louis, Derby two hole, Eclipse one hole, Prize, Crown, Metropolis, Peerless.

Thomas Peppler, Hightstown, N. J., Climax.

Hiram Deats, Jr., Pittstown, N. J., Smith's Cannon shellers; two hole hand and power shellers.

B. Gill & Son, Trenton, N. J., Peerless two hole.

A. W. Stevens & Son, Auburn, N. Y., Stevens power shellers.

John T. Noye Manufacturing Company, Buffalo, N. Y., Niagara.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

CORN SHELLERS (Continued).

Henry H. Lovejoy, Cambridge, N. Y., Eureka.

Treman, Waterman & Co., Ithaca, N. Y., Ithaca hand and power shellers.

Genesee Valley Manufacturing Company, Mt. Morris, N. Y., Genesee hand and power. See index to ads.

Carr & Co., 60 Wall street, New York, N. Y., Clinton, G. O. X., G. W. C., Virginia, Southern, Yankee.

A. B. Cohu Company, 197 Water street, New York, N. Y., A. B. C. hand and power, Victor.

H. N. Hubbard, 96 Chambers street, New York, N. Y., Clinton, Burrall, Virginia, Eagle, Southern, H. N. H., Victor.

John W. Douglass, 57 Beekman street, New York, N. Y., Burrall Improved.

Hobson & Co., 4 Stone street, New York, N. Y., Warrior, Reliance, Roanoke, American, Union, Seminole, Niagara, Shipping.

John Moore's Son, 193 Front street, New York, N. Y.

Rumsey & Co., Ltd., Seneca Falls, N. Y.

Gleason & Bailey Manufacturing Company, Ltd., Seneca Falls, N. Y., Burrall Improved.

Goulds Manufacturing Company, Seneca Falls, N. Y., and 60 Barclay street, New York City, Burrall Improved.

C. M. Thompson, Lexington, N. C.

Jas. L. Haven Company, Cincinnati, O., Sanford, I. X. L.

Straub Machinery Company, Cincinnati, O., Diamond.

Garry Iron & Steel Roofing Company, Cleveland, O., Wood's hand shellers.

Forest City Machine Works, Cleveland, O., Champion power shellers.

Newark Machine Company, Columbus, O.

Ohio Rake Company, Dayton, O., Little Giant.

Lehr Agricultural Company, Fremont, O., Excelsior.

Pilmer Bros., Homeworth, O., Homeworth.

Hocking Valley Manufacturing Company, Lancaster, O., Hocking Valley.

Eagle Machine Company, Lancaster, O., Eagle hand, power and self-feed.

Paige Manufacturing Company, Painesville, O., Triumph power.

Sandusky Machine & Agricultural Works, Sandusky, O., Reading power shellers

Foos Manufacturing Company, Springfield, O., Scientific.

E. W. Ross Company, Springfield, O., Little Giant. See index to ads.

Springfield Implement Company, Springfield, O., Springfield.

Tiffin Agricultural Works, Tiffin, O., Tiffin, Favorite, Challenge, Buckeye, Reliable, Pearl, Tony.

Columbia Agricultural Works, Columbia, Pa., with or without separator.

Daniel Hulshizer, Doylestown, Pa.

A. Buch & Son, Elizabethtown, Pa.

Krauss Bros., Geryville, Pa.

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CORN SHELLERS (Continued).

Sutton Bros. & Bell, Indiana, Pa., Daisy.
 Heebner & Sons, Lansdale, Pa., Heebner's hand and power shellers
 A. Blaker & Co., Newtown, Pa., Star hand and power shellers.
 W. L. Boyer & Bro., Germantown avenue and Diamond street, Philadelphia, Pa.
 James Thornton, 219 N. Broad street, Philadelphia, Pa., Kiger.
 Enterprise Hardware Company, Ltd., Pittsburgh, Pa., Monitor.
 Lessig & Bro. Agricultural Works, Reading, Pa., Root.
 H. L. Neuman, York, Pa., Eagle power.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa.
 A. H. Patch, Clarksville, Tenn., Patch's Black Hawk hand shellers. See page 42.
 S. R. White & Bro., Norfolk, Va., Reliance, Daisy.
 C. Billups, Son & Co., Norfolk, Va., Billups.
 H. M. Smith & Co., Richmond, Va., Buckeye and Virginia.
 Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., Badger,
 Hero, Chief. See index to ads.
 A. P. Dickey Manufacturing Company, Racine, Wis., Peerless. See index to ads.
 Silberzahn Manufacturing Company, West Bend, Wis., Wisconsin.

LISTER.

Hapgood Plow Company, Alton, Ill., Old Reliable sulky, Improved Hapgood combined lister and drill. See index to ads.
 Walton Plow Company, Bloomington, Ill.
 Parlin & Orendorff Company, Canton, Ill., Craig's Canton lister cultivator.
 David Bradley Manufacturing Company, Chicago, Ill.
 Grand Detour Plow Company, Dixon, Ill.
 Geo. W. Brown & Co., Galesburgh, Ill., Knox.
 Deere & Co., Moline, Ill.

Branch houses—John Deere Plow Company, Kansas City, Mo., Deere, Wells & Co., Council Bluffs, Ia., Deere & Co., Minneapolis, Minn., Deere Implement Company, San Francisco, Cal., H. H. Sickels & Co., Des Moines, Ia., Spencer & Lehman Company, Decatur, Ill. See index to ads.

Moline Plow Company, Moline, Ill., Moline single, Moline Star combined.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia. See index to ads.

Deere & Mansur Company, Moline, Ill., Deere.
 Weir Plow Company, Monmouth, Ill., combined.
 Pekin Plow Company, Pekin, Ill., common and combined.
 Peru Plow & Wheel Company, Peru, Ill., Cock of the Walk single and combined, riding and walking.
 Rock Island Plow Company, Rock Island, Ill., Rock Island combined lister and drill.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

LISTERS (Continued).

Eagle Manufacturing Company, Davenport, Ia., Eagle.
Norwegian Plow Company, Dubuque, Ia.
Keokuk Agricultural Works, Keokuk, Ia., Keokuk.
A. B. Clippinger & Bro., Centralia, Kan.
St. Paul Plow Works, St. Paul, Minn.
St. Joseph Plow Company, St. Joseph, Mo., Famous St. Joe.
J. Thompson & Sons, Ltd., Beloit, Wis., Norwegian single, Norwegian combined
lister and detachable drill. See index to ads.
J. I. Case Plow Works, Racine, Wis., J. I. Case.

CORN FODDER TYERS.

E. Blair, Bucyrus, O., Blair.

CORN CUTTERS AND CRUSHERS.

Challenge Wind Mill & Feed Mill Company, Batavia, Ill., Challenge.
Sandwich Enterprise Company, Sandwich, Ill., Dean. See index to ads.
Nordyke & Marmon Co., Indianapolis, Ind. See index to ads.
Richmond City Mill Works, Richmond, Ind., corn and cob crushers.
E. A. Porter & Bros., Bowling Green, Ky., Porter corn crushers.
S. A. Millard Manufacturing Company, Clayville, N. Y., Empire.
James L. Haven Company, Cincinnati, O., Little Giant, Excelsior.
Paige Manufacturing Company, Painesville, O., Bash.
Foos Manufacturing Company, Springfield, O., Scientific.
Krauss Bros., Geryville, Pa., Kraussdale.
Waldron & Sprout, Muncy, Pa., Cyclone ear corn crusher. See index to ads.
S. S. Messinger & Sons, Tatamy, Pa.
Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., Hobler ear
corn cutter. See index to ads.

CORN HARVESTERS.

Keyes Corn Harvester & Implement Manufacturing Company, Littleton, Colo.
Automatic Mower & Manufacturing Company, Harvey, Ill.
Keystone Manufacturing Company, Sterling, Ill., Keystone. See page 18.
Jenkins Hay Rake & Stacker Company, Ft. Madison, Ia., Jenkins corn cutter
and shocker combined.
Van Buren & Bitler, Carey, O.
Springfield Implement Company, Springfield, O., Daisy.

CORN HUSKING MACHINES

Keystone Manufacturing Company, Sterling, Ill., Keystone combined corn husker
and fodder cutter. See page 18.
J. Van Zandt, Schenectady, N. Y.
Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., Peck's. See
index to ads.

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CORN HUSKING MACHINES (Continued).

Milwaukee Hay Tool Company, Milwaukee, Wis., Milwaukee corn husker and fodder cutter combined.

Foster & Williams, Racine, Wis., Victor combined cutter and husker. See index to ads.

CORN HUSKERS.

California Garden Tool Company, Ferndale, Cal., Dandy.

Kaufman Bros., Bloomington, Ill.

Jas. G. Johnson, Carthage, Ill., Johnson.

E. Blair, Bucyrus, O., Clipper, Blair's.

CULTIVATORS.

Curry Manufacturing Company, Florence, Ala., for cotton and corn

Sheffield Agricultural & Machine Works, Sheffield, Ala., Boston.

Benicia Agricultural Works, Benicia, Cal., Benicia riding.

California Garden Tool Company, Ferndale, Cal.

Fosmir Iron Works, Los Angeles, Cal., Fosmir's economy orchard cultivator.

San Jose Agricultural Works, San Jose, Cal., San Jose.

Higginum Manufacturing Corporation, Higginum, Conn., Higginum.

Southern Agricultural Works, Atlanta, Ga.

Hapgood Plow Company, Alton, Ill., Dude, Boys, Vibrating, walking and riding.
See index to ads.

Walton Plow Company, Bloomington, Ill., Walton, tongue and tongueless; gopher cultivators.

Parlin & Orendorff Company, Canton, Ill., Clipper, Volunteer, Balance Frame walking cultivators, Victor riding cultivators, Craig's Canton lister cultivators.

Star Manufacturing Company, Carpentersville, Ill., Monitor.

David Bradley Manufacturing Company, Chicago, Ill., Bradley, Chicago, Vulcan, Duplex, Magic, walking, riding, combined and tongueless.

Grand Detour Plow Company, Dixon, Ill., tongueless, walking, riding, gophers.

E. Children & Sons, East Dubuque, Ill., Badger.

Geo. W. Brown & Co., Galesburgh, Ill., Steel Beam, Acme.

Marseilles Manufacturing Company, Marseilles, Ill., Adams walking, riding, and combined. See page 36.

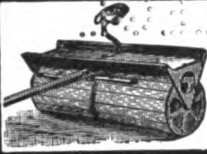
Strauss & Goetsch, Naperville, Ill.

J. D. Tower & Bro., Mendota, Ill. (pulverizer and cultivator combined), Tower's surface.

Deere & Co., Moline, Ill., Deere, Reindeer, Antelope, Columbia. See page 42.

Branch houses—John Deere Plow Company, Kansas City, Mo., Deere, Wells & Co., Council Bluffs, Ia., Deere & Co., Minneapolis, Minn., Deere Implement Company, San Francisco, Cal., H. H. Sickels & Co., Des Moines, Ia., The Spencer & Lehman Company, Decatur, Ills.

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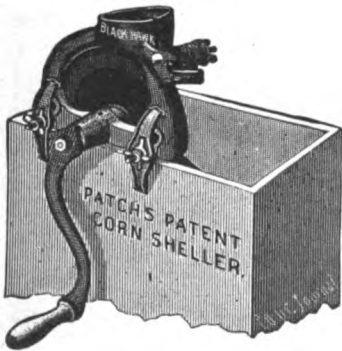
**LION FODDER
CUTTER & CRUSHER**
FOR HAY, STRAW,
DRY FODDER, & ENSILAGE.
CUTS TO LENGTH CAN BE
USED WITH OR WITHOUT CRUSHING ATTACHMENT
MADE BY HAUCK AND COMSTOCK
MECHANICSBURG, PENNA.



Send for Catalogues and Prices to
HAUCK & COMSTOCK,
MECHANICSBURG, PA.



Patch's Patent Corn Shellers.



These Shellers are
Strong, Simple and Durable
Factory Retail Price \$3.00.

Will shell easily and rapidly. They also separate the cobs from shelled corn. Twelve packed in a barrel for shipment. Dealers, write for Circulars and prices.

No implement or machine is more popular than

"BLACK HAWK"

The demand for it constantly increases, and its sale extends to every State and Territory. I have hundreds of testimonials from farmers who claim that "BLACK HAWK" is better for ordinary farm use than any of the large, costly geared shellers.

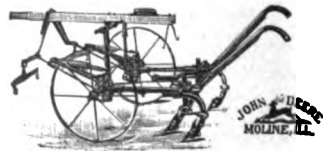
A. H. PATCH, Clarksville, Tenn.

DEERE & CO.

MOLINE, ILL.

MANUFACTURERS OF —

THE CELEBRATED



REINDEER CULTIVATOR

AND OTHER RIDING AND WALK-
ING CULTIVATORS, PLOWS, ETC.

**THE LARGEST PLOW FACTORY
IN THE WORLD.**

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

CULTIVATORS (Continued).

Moline Plow Company, Moline, Ill., Brigadier, New Western walking, Commander, Little Joker tongueless, Dandy combined. See index to ads.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia. Deere & Mansur Company, Moline, Ill., Deere disk.

Evan Davis & Son, Butler, Md., Davis.

Pattee Plow Company, Monmouth, Ill., New Departure tongueless, Reliable combined.

Weir Plow Company, Monmouth, Ill., parallel wood and steel beam and tongueless, all styles riding and walking.

H. L. Miller, Morris, Ill., Morris gopher.

King & Hamilton Company, Ottawa, Ill., Ottawa gophers, Champion and Monarch walking, Eagle Claw, Freelan.

Pekin Plow Company, Pekin, Ill., full line.

Avery Planter Company, Peoria, Ill., pivoted wheel, Ajax with tongue, Mystic, Mystic Junior, Speechless tongueless, Avery's Easy, combined riding and walking.

R. C. Buckley, Peoria, Ill., Dan Webster.

Millikin, Cisle & Co., Peoria, Ill., Peoria.

Peru Plow & Wheel Company, Peru, Ill., Maud S. riding, walking, parallel, tongueless, spring tooth, gopher.

Collins Plow Company, Quincy, Ill., Quincy, Collins-Brown, Collins tongueless. See index to ads.

H. B. Busing & Co., Rockford, Ill., N. C. Thompson sulky.

Emerson, Talcott & Co., Rockford, Ill., Standard riding, Standard combined, Standard walking. See index to ads.

Rockford Manufacturing Company, Rockford, Ill.

Rockford Plow Company, Rockford, Ill., Prize.

Peter Sames, Rockford, Ill., Old Reliable, New Sames riding, walking, tongueless.

Skandia Plow Company, Rockford Ill., Knowlton riding, Globe tongueless, Skandia walking.

Rock Island Plow Company, Rock Island, Ill., Ajax, She riding, Superior, Hero walking; Buford tongueless, five tooth, eagle claws.

Sandwich Enterprise Company, Sandwich, Ill., Enterprise, Climax walking, Climax riding, Bash surface cultivators, for corn or cotton. See index to ads.

Sattley Manufacturing Company, Springfield, Ill., Parallel, Spring Trip, tongueless, spring tooth, combination beam. See index to ads.

W. B. Sturgis, Shelbyville, Ill., Sturgis.

Abram Ellwood, Sycamore, Ill., Ellwood riding, Iron King walking.

Cress Bros. & Co., Warsaw, Ill., Warsaw.

Reeves & Co., Columbus, Ind., Hoosier Boy.

Whitehall Cultivator Manufacturing Company, Covington, Ind., Whitehall.

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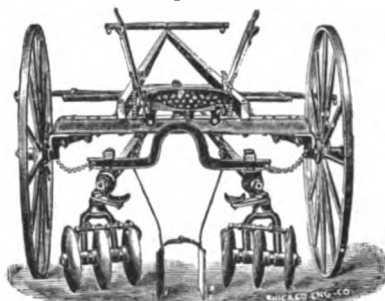
Janesville Rotary Disc Cultivator.

Surface

Tillage.

Light

Draft.



Unexcelled for

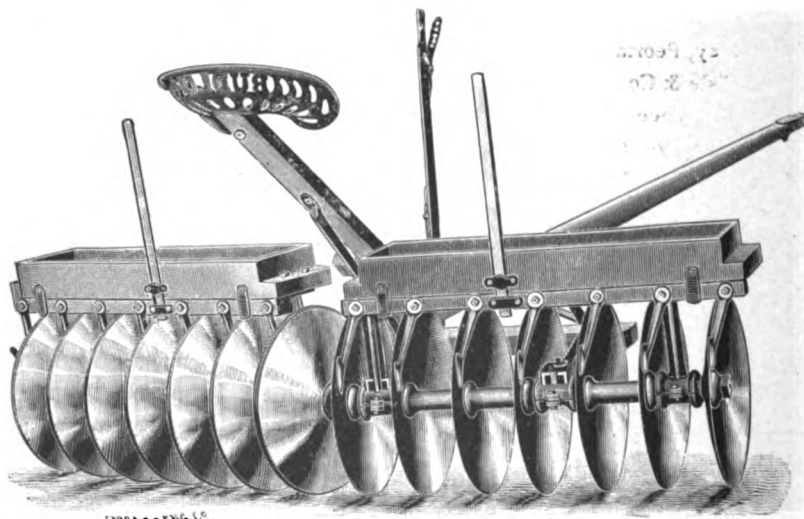
Corn or Cotton.

Especially adapted

to Listed Corn.

Budlong Rotary Disc Harrow

**Manufactured in Nine Sizes,
WITH FORCE FEED SEEDING ATTACHMENT, IF DESIRED.**



Crown Mowers, Prairie City Seeders,

Rival Press Drill, Leader Hoe Drill.

Disk Sharpeners, 11-ft. Force Feed Sowers.

JANESVILLE MACHINE CO.,

Janesville, Wisconsin.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

CULTIVATORS (Continued).

- Henry F. Blount, Evansville, Ind., walking and riding.
 Farmers Manufacturing & Supply Company, Indianapolis, Ind., Corn King, Queen.
 Rude Bros. Manufacturing Company, Liberty, Ind., Indiana.
 St. Joseph Manufacturing Company, Mishawaka, Ind., Mishawaka, Hoosier Belle.
 Wm. Clore's Sons, Rising Sun, Ind., gophers.
 Star Drill Company, Rushville, Ind., Star five tooth adjustable.
 South Bend Chilled Plow Company, South Bend, Ind., Newmarket five blade, Casaday wheeled.
 Hartman Manufacturing Company, Vincennes, Ind., Acme, Hartman tongueless.
 Charles City Manufacturing Company, Charles City, Ia., Burnham, Webster, Delight.
 C. Sommars, Boone, Ia., Farmers Friend, walking, riding.
 Funk & Hertzler, Burlington, Ia.
 Ray Implement Company, Burlington, Ia., Total Eclipse, Model tongueless.
 Eagle Manufacturing Company, Davenport, Ia., Golden Eagle.
 Norwegian Plow Company, Dubuque, Ia., walking, riding, and tongueless. See index to ads.
 Novelty Iron Works, Dubuque, Ia. See index to ads.
 Morrison Manufacturing Company, Ft. Madison, Ia., Morrison clevis spring tongueless, combined, five, seven and nine tooth.
 Cass & McArthur, Harlan, Ia., tongue, tongueless, surface.
 Empire Manufacturing Company, Keokuk, Ia., Empire disk.
 Fair, Williams & Co., Ottumwa, Ia., Wapello Chief tongueless.
 Philip Kiester, Ottumwa, Ia., Total Eclipse.
 A. B. Clippinger & Bro., Centralia, Kan., Clipper.
 Laidlaw & Clark Hay Press Manufacturing Company, Cherokee, Kan., Clark.
 George H. Rexford, Fankfort, Kan., for listed corn.
 B. F. Avery & Sons, Louisville, Ky., Avery five tooth, Farmer's Delight, Ajax walking, Avery combined.
 Brinly, Miles & Hardy Company, Louisville, Ky.
 Thomas Meikle & Co., Louisville, Ky., Spring Beauty walking, Laurel riding, Climax, Mayflower.
 Whitman Agricultural Works, Auburn, Me.
 Timothy B. Hussey, North Berwick, Me., New Model, Centennial.
 Daniel T. Kelley, Portland, Me.
 Silas Goddard & Son, South Durham, Me.
 F. C. Merrill, South Paris, Me.
 Ames Plow Company, Quincy Hall, Boston, Mass., and New York, N. Y., iron frame.
 Ann Arbor Agricultural Company, Ann Arbor, Mich., Washtenaw.
 Gale Manufacturing Company, Albion, Mich., Albion spring tooth, Daisy walking.
 George & Tweedale, Constantine, Mich., wheel cultivators.
 American Harrow Company, Detroit, Mich., New American corn cultivator.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

CULTIVATORS (Continued).

- H. B. Wells, Ithaca, Mich.
 A. Bostick, Millington, Mich.
 Castree-Mallery Company, Flint, Mich., Star.
 Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich.,
 Pearce's Patent, Orchard. See index to ads.
 G. W. Arnold & Son, Ionia, Mich., Arnold wheel.
 L. Cahill & Co., Kalamazoo, Mich. Cahill.
 L. C. Lull & Co., Kalamazoo, Mich., Boss spring tooth cultivators.
 Chase Taylor Company, Kalamazoo, Mich., Standard, King of All, spring tooth.
 D. C. & H. C. Reed & Co., Kalamazoo, Mich., Reed one and two horse.
 E. Bement & Sons, Lansing, Mich., Ajax steel frame, Lansing wheel walking.
 A. C. Bruce, Lapeer, Mich., Standard walking wheel cultivator.
 Wells Cultivator Company, Milford, Mich., American riding spring tooth cultivators, Little Giant walking cultivators.
 Wilder Manufacturing Company, Monroe, Mich., walking, riding.
 Donaldson Bros., Mt. Clemens, Mich., Iron King.
 D. O. Everest & Co., Pine Grove Mills, Mich., Boss spring tooth.
 Mitts & Merrill, Saginaw, Mich.
 Whipple Harrow Company, St. Johns, Mich., Whipple.
 Geo. Nollar, Salem, Mich.
 Carver Manufacturing Company, Carver, Minn., Star.
 Eggen Bros., Rushford, Minn.
 Stevenson Bros. & Co., St. Cloud, Minn.
 St. Paul Plow Works, St. Paul, Minn., New Superior tongue, New Model tongueless,
 Warner cultivators for listed corn.
 Winona Plow Company, Winona, Minn., Winona riding and walking.
 A. H. Kirkland, Jackson, Miss.
 H. M. Godfrey, Jonesburgh, Mo.
 Marvin Mills, Memphis, Mo.
 St. Joseph Plow Company, St. Joseph, Mo., tongue, tongueless, listing.
 H. Reinstedler, St. Louis, Mo.
 Geo. F. Kregel, Nebraska City, Neb., walking
 I. E. Phelps, Wahoo, Neb.
 Wm. P. Ford & Co., Concord, N. H.
 J. P. Hussey, Gilman Iron Works, N. H., Star.
 E. S. & F. Bateman, Grenloch, N. J., Iron Age.
 Thomas Peppler, Hightstown, N. J., Climax.
 W. R. Van Gilder, Petersburg, N. J., iron and wood frame.
 W. W. Packer & Son, Saddle River, N. J.
 J. Chalmers Rue, Tennent, N. J., Rue corn plow.
 Risedorph Agricultural Works, Albany, N. Y.
 A. W. Stevens & Son, Auburn, N. Y., Stevens spring tooth.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE" WHEN WRITING TO MANUFACTURERS.

CULTIVATORS (Continued).

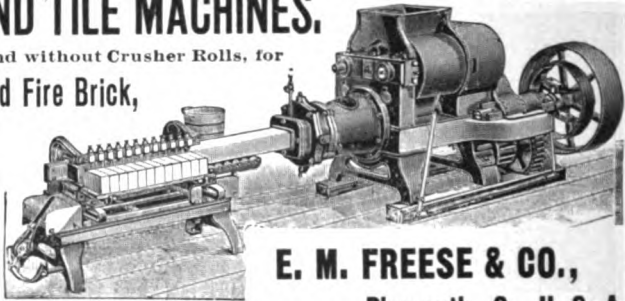
Champion Drill Company, Ltd., Avon, N. Y., wheel and corn.
 Johnston Harvester Company, Batavia, N. Y., Continental disk.
 Henry H. Lovejoy, Cambridge, N. Y.
 Geo. Sweet & Co., Dansville, N. Y., Nichols spring tooth.
 B. W. Bramer, Fabius, N. Y.
 Herendeen Manufacturing Company, Geneva, N. Y., Herendeen spring tooth.
 Gowanda Agricultural Works Company, Gowanda, N. Y.
 W. Eddy & Sons, Greenwich, N. Y.
 W. A. Mallery, Hillsdale, N. Y.
 W. G. Graves, Champlain, N. Y., Iron Age.
 Geo. O. P. Turner, Churchville, N. Y., wheeled and corn.
 Reynolds & Lang, Ithaca, N. Y., Farmer's Favorite, Tompkins County, Ithaca.
 John Moore's Son, 198 Front street, New York, N. Y.
 Geo. Parnell, Ontario, N. Y., Parnell, Iron Duke spring tooth cultivator.
 Wyckoff & Co., Perry, N. Y.
 Phelps Chilled Plow Works, Phelps, N. Y.
 Riverhead Agricultural Works, Riverhead, N. Y., Hudson, Bicycle riding.
 Baker & Shevlin, Schuylerville, N. Y., Baker-Shevlin.
 Chas. H. Childs & Co., Utica, N. Y., U. T. K.
 Eureka Mower Company, Utica, N. Y., Eureka spring tooth.
 De Wane B. Smith & Co., Utica, N. Y., Deerfield.
 D. D. Bromley, Waterport, N. Y., wood frame.
 Frank Maute, Lancaster, N. Y., Lancaster.
 Gardner Foundry Company, Lockport, N. Y.
 Carr & Co., 69 Wall street, New York, N. Y.
 H. N. Hubbard, 96 Chambers street, New York, N. Y., Jersey, Wrights
 G. Lord, Watertown, N. Y.
 C. S. Frost, Watkins, N. Y.
 F. & J. H. Culver, West Oneonta, N. Y.
 William Ripson & Son, Youngstown, N. Y.
 Stinger, Dexter & Co., Munnsville, N. Y.
 Joseph Allen, Palmyra, N. Y.
 Kemp & Burpee Manufacturing Company, Syracuse, N. Y., Everingham.
 J. S. & M. Peckham, Utica, N. Y., Iron Duke, Variety iron frame, also wood frame
 Edgecombe Agricultural Works, Tarborough, N. C.
 Akron Tool Company, Akron, O., Kraus.
 Burton Handle Company, Burton, O., Briggs, Empire.
 Empire Plow Company, Cleveland, O.
 Farmers Friend Manufacturing Company, Dayton, O., Farmers Friend. See page 20.
 Ohio Cultivator Company, Bellevue, O., Fremont sulky and walking cultivators,
 also iron frame and five tooth cultivators, spring tooth.
 A. J. Gunter & Co., Cincinnati Plow & Bellows Works, Cincinnati, O.

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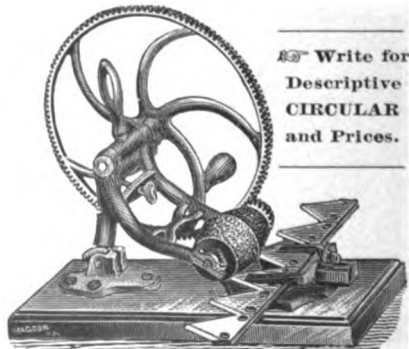
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"STANDARD" Fast Grinding Farm Feed Mills,
"SAW GUMMERS" And Gummer Cutters,
"THE AJAX" Automatic Wood Boring Machine,
"THE COLLINS" Roller Tube Expander, Etc.**



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CULTIVATORS (Continued).

- Smith, Amann & Co. (Columbus Plow Works), Columbus, O.
 Lehr Agricultural Company, Fremont, O., Lehr, Simplex.
 D. P. Emrich, Germantown, O.
 Greentown Foundry Company, Greentown, O., Greentown.
 Long & Allstatter Company, Hamilton, O., Hamilton bar share tongue cultivators,
 Hamilton combined riding and walking cultivators, Hamilton tongueless culti-
 vators, Hamilton adjustable arch tongueless cultivators.
 J. W. Dunham & Son, Berea, O., Dunham.
 Motherwell Iron & Steel Company, Logan, O.
 Brown-Manly Plow Company, Malta, O., five tooth steel Queen; Malta, Ohio, May-
 flower; combined, walking and tongueless.
 Spicer Manufacturing Company, New Philadelphia, O., Spicer.
 L. W. Fillebrown & Son, Piqua, O., combined cultivator and harrow.
 Superior Drill Company, Springfield, O., Superior.
 P. P. Mast & Co., Springfield, O., Buckeye Sunbeam, walking, riding, spring tooth,
 tongueless.
 Springfield Implement Company, Springfield, O., Springfield riding, Success walking.
 Toledo Plow Company, Toledo, O.
 Wm. M. Johnston, Wilmot, O., Eureka.
 Brown Manufacturing Company, Zanesville, O., Brown, Tip Top and Buzzard; I. X.
 L. five tooth cultivators.
 Columbia Agricultural Works, Columbia, Pa., iron beam.
 George Wagner, Effort, Pa.
 Jas. H. Albright, Laurelton, Pa., Keystone sulky, Albright.
 Monroeton Manufacturing Company, Monroeton, Pa.
 S. L. Allen & Co., 1107 Market street, Philadelphia, Pa., Planet Junior.
 A. Speer & Sons (Globe Plow Works), Pittsburgh, Pa.
 Hench & Dromgold, York, Pa., Daisy spring, Hench's riding, Champion walking.
 Barrows & Sargent, Castleton, Vt.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa.
 Monroe Manufacturing Company, Monroe, Wis.
 S. R. White & Bro., Norfolk, Va., Daisy.
 Gilbert Hunt & Co., Walla Walla, Wash.
 J. S. Rowell Manufacturing Company, Beaver Dam, Wis., Rowell corn cultivators.
 J. Thompson & Sons, Ltd., Beloit, Wis., Thompson riding, Norwegian walking,
 Norwegian Princess tongueless, Thompson combined, Badger parallel beam.
 See index to ads.
 Gesley Bros. Manufacturing Company, Beloit, Wis., Gesley riding.
 Geo. M. Pierce, Brodhead, Wis., Western Chief riding, Rowell combined, five tooth.
 L. O. Amondson, Gratiot, Wis., five tooth.
 Janesville Machine Company, Janesville, Wis., Janesville disk corn cultivators. See
 page 44.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

CULTIVATORS (Continued).

O. C. Vaughn, Jefferson, Wis., Jefferson sulky.

Henry Williams, Kenosha, Wis.

La Crosse Plow Works (A. Hirshheimer, prop.), La Crosse, Wis., Conqueror riding, Royal walking.

Haskins Manufacturing Company, Lake Geneva, Wis., Clipper sulky four and six shovel.

Fuller & Johnson Manufacturing Company, Madison, Wis., Bonanza riding, Fuller & Johnson walking, five and seven tooth steel, tobacco cultivators, three shovel iron, Victor, Winner, Tip Top.

I. B. Rowell & Co., Menomonee Falls, Wis.

Orvis Plow Company, Racine, Wis., Dixon.

Belle City Manufacturing Company, Racine, Wis. See page 72.

J. I. Case Plow Works, Racine, Wis., Old Reliable riding, Corn Chief and Belle City walking, Corn Chief combined, Best surface, Belle City tongueless, Badger tongueless, Eli listing, spring tooth, eagle claw.

R. N. Rasmussen, Randolph, Wis.

CULTIVATOR ATTACHMENTS.

King & Hamilton Company, Ottawa, Ill., Eagle Claw, eight shovel.

Avery Planter Company, Peoria, Ill., Eagle Claws, spring tooth, sweeps.

Sandwich Enterprise Company, Sandwich, Ill., Eagle Claws, mokers, gopher, Bash surface. See index to ads.

Farmers Manufacturing & Supply Company, Indianapolis, Ind., Davis, Wood's.

J. D. Tower & Bro., Mendota, Ill., surface cultivator attachments.

Wilder Manufacturing Company, Monroe, Mich.

CULTIVATOR BEAMS AND ARCHES.

Chicago Steel Works, 806 Noble street, Chicago, Ill.

CULTIVATOR SHOVELS.

Star Manufacturing Company, Carpentersville, Ill.

Novelty Iron Works, Dubuque, Ia. See index to ads.

Syracuse Chilled Plow Company, Syracuse, N. Y.

J. S. & M. Peckham, Utica, N. Y.

CHURN POWERS.

H. H. Palmer & Co., Rockford, Ill.

Monroeton Manufacturing Company, Monroeton, Pa.

CULTIVATOR TEETH.

E. Bement & Sons, Lansing, Mich.

E. S. & F. Bateman, Grenloch, N. J.

Syracuse Chilled Plow Company, Syracuse, N. Y.

J. S. & M. Peckham, Utica, N. Y.

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CHURNS.

- D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
 John Boyd, Chicago, Ill.
 J. S. Brubaker. Freeport, Ill., Climax.
 H. F. Batcheller & Son, Rock Falls, Ill., Batcheller Faultless barrel churns.
 H. H. Palmer & Co., Rockford, Ill., Boss and Acme.
 J. McDermaid, Rockford, Ill., Boss and Star.
 Blakeman & Dobson Manufacturing Company, Rockford, Ill., Favorite.
 I. X. L. Pump Company, Goshen, Ind., Oval.
 J. G. Cherry, Cedar Rapids, Ia.
 Moseley & Pritchard Manufacturing Company, Clinton, Ia., Pritchard.
 H. F. Brammer Manufacturing Company, Davenport, Ia., Brammer.
 A. C. Clark & Co., Manchester, Ia., Clark's self-ventilating box churns.
 J. G. Henderson & Co., Keokuk, Ia., Iowa.
 Ames Plow Company, Boston, Mass., and New York, N. Y., Davis, Thermometer,
 Cylinder, Ames improved.
 American Churn Company, Westfield, Mass., American, Wonderful.
 Flint Cabinet Creamery Company. Flint, Mich., hand and power.
 Crystal Creamery Company, Lansing, Mich.
 H. McK. Wilson & Co., St. Louis, Mo.
 Porter Blanchard's Sons, Nashua, N. H., Blanchard's cylindrical factory churns,
 square factory churns, family churns, round top.
 Henry M. Willis, East Williston, L. I., N. Y., Willis.
 John S. Carter, Syracuse, N. Y., O. K., also power churns.
 Wyman L. Edson, Union Center, N. Y., Boss, Star.
 D. H. Burrell & Co., Little Falls, N. Y.
 R. W. Fenner, South Stockton, N. Y., Fenner's.
 Childs & Jones, Utica, N. Y.
 Buckeye Churn Company, Carey, O., Rocking Barrel, Improved Buckeye.
 H. P. Deuscher Company, Hamilton, O., Favorite.
 Union Manufacturing Company, Toledo, O., Union.
 Tiffin Union Churn Company, Tiffin, O., Union.
 Champion Churn Works (E. H. Funk, prop.), Toledo, O., Champion.
 M. Brown & Co., Wapakoneta, O.
 A. H. Reid, 30th and Market streets, Philadelphia, Pa., Reid's.
 Vermont Farm Machine Company, Bellows Falls, Vt., Davis swing, Gang churn,
 Surprise barrel, square box.
 Sidney Holmes, Grafton, Vt., Fylers, Holmes.
~~Moseley & Stoddard~~ Manufacturing Company, Rutland, Vt., Stoddard.
 Duplex Wind Mill Company, Brooklyn, Wis., Victor.
 Cornish, Curtis & Greene, Ft. Atkinson, Wis., Curtis.
 G. H. Pounder, Ft. Atkinson, Wis.

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BUTTER CARRIERS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
Porter Blanchard's Sons Company, Nashua, N. H.
Vermont Farm Machine Company, Bellows Falls, Vt., Cooley improved.
Moseley & Stoddard Manufacturing Company, Rutland, Vt.

BUTTER PACKAGES AND SHIPPING BOXES.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
Crystal Creamery Company, Lansing, Mich.
Porter Blanchard's Sons Company, Nashua, N. H.
D. H. Burrell & Co., Little Falls, N. Y., Bradley.
John S. Carter, Syracuse, N. Y., Carter's tin lined.
Childs & Jones, Utica, N. Y.
Record Manufacturing Company, Conneaut, O., Record.
A. H. Reid, Philadelphia, Pa.
Cornish, Curtis & Greene, Ft. Atkinson, Wis., Bradley, Curtis.

BUTTER TUBS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
O. N. Avery, Allen, Mich.

BUTTER WORKERS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
H. F. Batcheller & Son, Rock Falls, Ill., roller, lever.
H. H. Palmer & Co., Rockford, Ill., lever.
Moseley & Pritchard Manufacturing Company, Clinton, Ia., Hawkeye.
A. C. Clark & Co., Manchester, Ia., Clark's Manchester.
Wm. E. Lincoln Company, Warren, Mass.
American Churn Company, Westfield, Mass., Taylor butter worker, mould and printer.
Flint Cabinet Creamery Company, Flint, Mich.
Crystal Creamery Company, Lansing, Mich.
H. McK. Wilson & Co., St. Louis, Mo.
Porter Blanchard's Sons Company, Nashua, N. H., Blanchard factory butter workers family butter workers.
D. H. Burrell & Co., Little Falls, N. Y.
John S. Carter, Syracuse, N. Y., O. K.
Wyman L. Edson, Union Centre, N. Y., Perfection.
A. H. Reid, Philadelphia, Pa., hand power, lever.
Vermont Farm Machine Company, Bellows Falls, Vt., Eureka, Skinner, Philadelphia, power workers.
Waters Manufacturing Company (F. C. Whiting, mngr.), Johnson, Vt., Waters.
Moseley & Stoddard Manufacturing Company, Rutland, Vt.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

BUTTER WORKERS (Continued).

Cornish, Curtis & Greene, Ft. Atkinson, Wis., Lever, Favorite, Eureka lever,
Mason's improved power.
G. H. Pounder, Ft. Atkinson, Wis., power.

BUTTER PRINTERS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
H. H. Palmer & Co., Rockford, Ill., also butter moulds.
Porter Blanchard's Sons Company, Nashua, N. H.
D. H. Burrell & Co., Little Falls, N. Y.
Childs & Jones, Utica, N. Y.
A. H. Reid, Philadelphia, Pa.
Barnet R. Rapp, West Chester, Pa., Automatic.
Vermont Farm Machine Company, Bellows Falls, Vt., Eureka, Nesbitt.
Moseley & Stoddard Manufacturing Company, Rutland, Vt.
Cornish, Curtis & Greene, Ft. Atkinson, Wis., combination, square, California.

CREAMERY CANS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
H. H. Palmer & Co., Rockford, Ill., Vacuum.
Haney & Campbell, Bellevue, Ia., Haney.
J. G. Cherry, Cedar Rapids, Ia.
Childs & Jones, Utica, N. Y.
Chas. Millar & Son, Utica, N. Y.
Vermont Farm Machine Company, Bellows Falls, Vt.
Cornish, Curtis & Greene, Ft. Atkinson, Wis.

MILKING TUBES.

Sumner Manufacturing Company, 157 Randolph street, Chicago, Ill.
Childs & Jones, Utica, N. Y.

MILK SAFES.

E. P. Dickey Racine Fanning Mill Company, Racine, Wis., Badger State.

MILK AERATORS.

E. L. Hill, West Upton, Mass., Hill's.

MILK COOLERS.

Childs & Jones, Utica, N. Y.
Cornish, Curtis & Greene, Ft. Atkinson, Wis., Danish Weston cream, Howard's
patent milk coolers.

CHEESE PRESSES.

D. H. Burrell & Co., Little Falls, N. Y.
John S. Carter, Syracuse, N. Y.
Childs & Jones, Utica, N. Y.
Cornish, Curtis & Greene, Ft. Atkinson, Wis., Fraser gang, standing presses.

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CREAMERS.

John Boyd, 199 Lake street, Chicago, Ill., Cooley.
 D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
 Way & Woodruff, Geneseo, Ill., Little Gem.
 L. Leach, Joliet, Ill., Eureka.
 Polar Creamery Company, La Fayette, Ind.
 Haney & Campbell, Bellevue, Ia.
 Moseley & Pritchard Manufacturing Company, Clinton, Ia., Moseley's Occident.
 Wm. E. Lincoln Company, Warren, Mass., channel can.
 Flint Cabinet Creamery Company, Flint, Mich., Cabinet.
 Crystal Creamery Company, Lansing, Mich.
 H. McK. Wilson & Co., St. Louis, Mo.
 John S. Carter, Syracuse, N. Y., O. K.
 Childs & Jones, Utica, N. Y., Crescent.
 A. H. Reid, 30th and Market streets, Philadelphia, Pa., Reid's, Reid's Peerless,
 round and square.
 Vermont Farm Machine Company, Bellows Falls, Vt., Cooley, elevator, cabinet,
 Senior and Junior.
 Moseley & Stoddard Manufacturing Company, Rutland, Vt., Stoddard.
 Cornish, Curtis & Greene, Ft. Atkinson, Wis.

CREAM GATHERING REFRIGERATOR TANKS AND CREAM VATS.

Sandwich Enterprise Company, Sandwich, Ill., Enterprise. See index to ads.
 H. Dickinson & Son, Lowell, Ind.
 Haney & Campbell, Bellevue, Ia.
 Flint Cabinet Creamery Company, Flint, Mich., single and twin cream vats; set-
 ting cans and tanks.
 John S. Carter, Syracuse, N. Y.
 A. H. Reid, Philadelphia, Pa.
 Vermont Farm Machine Company, Bellows Falls, Vt.
 Eclipse Wind Engine Company, Beloit, Wis.
 Cornish, Curtis & Greene, Ft. Atkinson, Wis., Curtis tanks and vats.

DAIRY AND CREAMERY APPARATUS AND SUPPLIES.

Davis & Rankin, Chicago, Ill.
 Creamery Package Company, 26 N. Clark street, Chicago, Ill.
 Western Dairy Supply Company, 19 Michigan avenue, Chicago, Ill.
 John Boyd, 199 Lake street, Chicago, Ill.
 D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
 Haney & Campbell, Bellevue, Ia., jacketed cream carriers, cream vats, ash butter
 tubs, creamery supplies.
 J. G. Cherry, Cedar Rapids, Ia.
 Novelty Iron Works, Dubuque, Ia. See index to ads.
 Bartlett & Dow, Lowell, Mass.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

DAIRY AND CREAMERY APPARATUS AND SUPPLIES (Continued).

Flint Cabinet Creamery Company, Flint, Mich.
 H. Mc K. Wilson & Co., St. Louis, Mo.
 Porter Blanchard's Sons Company, Nashua, N. H.
 Charles Millar & Son, Utica, N. Y.
 Childs & Jones, Utica, N. Y.
 D. H. Burrell & Co., Little Falls, N. Y.
 John S. Carter, Syracuse, New York.
 A. H. Reid, 30th & Market streets, Philadelphia, Pa.
 Vermont Farm Machine Company, Bellows Falls, Vt.
 Moseley & Stoddard Manufacturing Company, Rutland, Vt.
 Cornish, Curtis & Greene, Ft. Atkinson, Wis.

DOG POWERS.

J. S. Brubaker, Freeport, Ill.
 H. F. Batcheller & Sons, Rock Falls, Ill.
 H. H. Palmer & Co., Rockford, Ill.
 J. McDermaid, Rockford, Ill.
 Crystal Creamery Company, Lansing, Mich.
 Albany Agricultural Works, Albany, N. Y.
 F. A. Murphy, Delhi, N. Y., Victor.
 Gowanda Agricultural Works Company, Gowanda, N. Y., Gowanda.
 Jno. T. Robinson, Roxbury, N. Y.
 J. Crook & Son, Augusta, O., Scientific.
 Logan & Strobridge Iron Company, New Brighton, Pa.
 Enterprise Manufacturing Company, Troy, Pa., Enterprise.
 Vermont Farm Machine Company, Bellows Falls, Vt.
 Cornish, Curtis & Greene, Ft. Atkinson, Wis.

CREAM TESTERS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
 D. H. Burrell & Co., Little Falls, N. Y.
 Wyman L. Edson, Union Center, N. Y., Edson's.

CREAM SEPARATORS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
 D. H. Burrell & Co., Little Falls, N. Y., Danish Weston.
 De Laval Separator Company, 76 Cortlandt street, New York, N. Y.
 P. M. Sharples, West Chester, Pa., and Elgin, Ill., De Laval power and hand separators.

COVERS FOR AGRICULTURAL IMPLEMENTS.

Gilbert Cover Company, Newark, N. J.
 National Waterproof Fibre Company, 27 South street, New York, N. Y.
 J. A. McAuley & Peters, Colmubus, O.

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MILK CANS, PANS AND PAILS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
H. H. Palmer & Co., Rockford, Ill.
Haney & Campbell, Bellevue, Ia., Haney.
J. G. Cherry, Cedar Rapids, Ia.
A. C. Clark & Co., Manchester, Ia., Clark's Revolution.
Bartlett & Dow, Lowell, Mass., Common Sense.
Flint Cabinet Creamery Company, Flint, Mich., shipping cans.
Childs & Jones, Utica, N. Y.
Charles Millar & Son, Utica, N. Y.
Cornish, Curtis & Greene, Ft. Atkinson, Wis.

MILK TESTING MACHINES.

Childs & Jones, Utica, N. Y.
P. M. Sharples, West Chester, Pa., and Elgin, Ill., De Laval.
Cornish, Curtis & Greene, Ft. Atkinson, Wis., Babcock's.

CHEESE VATS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
Haney & Campbell, Bellevue, Ia.
D. H. Burrell & Co., Little Falls, N. Y.
John S. Carter, Syracuse, N. Y.
Charles Millar & Son, Utica, N. Y.
Childs & Jones, Utica, N. Y.
Cornish, Curtis & Greene, Ft. Atkinson, Wis., Boyd's.

WIND MILL CHURN ATTACHMENTS.

Fairbanks, Morse & Co., Chicago, Ill. See index to ads.
Elgin Wind Power & Pump Company, Elgin, Ill.
Sandwich Enterprise Company, Sandwich, Ill., Enterprise. See index to ads.
Clark & Co., Somonauk, Ill.
E. B. Winger, South Chicago, Ill., Royal.
Flint & Walling Manufacturing Company, Kendallville, Ind.
Cornish, Curtis & Greene, Ft. Atkinson, Wis., Reliance, Favorite.
Althouse-Wheeler Company, Waupun, Wis.

OIL TEST CHURNS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
Wyman L. Edson, Union Centre, N. Y., Edson's.
Cornish, Curtis & Greene, Ft. Atkinson, Wis., Curtis.

CHEESE FACTORY APPARATUS.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
Davis & Rankin, Chicago, Ill.
Haney & Campbell, Bellevue, Ia.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

CHEESE FACTORY APPARATUS (Continued).

D. H. Burrell & Co., Little Falls, N. Y., cheese hoops.
John S. Carter, Syracuse, N. Y.
Childs & Jones, Utica, N. Y.
Chas. Millar & Son, Utica, N. Y.
Vermont Farm Machine Company, Bellows Falls, Vt.
Cornish, Curtis & Greene, Ft. Atkinson, Wis.

CALF FEEDERS.

J. B. Small & Co., 21 S. Market street, Boston, Mass., Small's.

CALF WEANERS.

California Garden Tool Company, Ferndale, Cal., Novelty.
H. W. Hill & Co., Decatur, Ill., Model.

DAIRY STOVES.

D. R. Sperry & Co., Batavia, Ill., Dairymaid.
D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
J. S. & M. Peckham, Utica, N. Y.

CORN KNIVES.

Winsted Manufacturing Company, Winsted, Conn.
Beardsley Scythe Company, West Winsted, Conn.
Withington & Cooley Manufacturing Company, Jackson, Mich., Yankee.
New London Scythe Company, Scytheville, N. H., Champion.
E. S. & F. Bateman, Grenloch, N. J., Eureka.
Auburn Manufacturing Company, Auburn, N. Y.
David Wadsworth & Son, Auburn, N. Y., Clipper and Saber Blade.
S. A. Millard Manufacturing Company, Clayville, N. Y., Empire.

CORN STALK CUTTERS AND GRINDERS.

Deere & Mansur Company, Moline, Ill., Deere.
Wilder Manufacturing Company, Monroe, Mich.
Foster & Williams, Racine, Wis. See index to ads.

DETACHABLE DRIVE CHAINS.

Ewart Manufacturing Company, Chicago, Ill.

DYNAMOMETERS.

Fairbanks, Morse & Co., Chicago, Ill. See index to ads.
Herman Kolbusch, 59 Nassau street, New York, N. Y.

GRAIN TESTING SCALES.

Herman Kolbusch, 59 Nassau street, New York, N. Y.
E. H. Pease Manufacturing Company, Racine, Wis. See index to ads.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

TILE DITCHING MACHINES.

Streator Engine & Machine Works, Streator, Ill., Plumb steam tile ditchers.
 C. D. Edwards, Albert Lea, Minn., Edwards.)
 Sumner Manufacturing Company, Hutchinson, Minn.
 Kemp & Burpee Manufacturing Company, Syracuse, N. Y., Palica.
 H. I. Potter, Leonardsburgh, O., Potter's Patent.

EXCAVATORS AND DITCHERS.

Benicia Agricultural Works, Benicia, Cal., Fresno.
 Western Wheel Scraper Company, Mt. Pleasant, Ia., Moore, Irrigator.
 C. D. Edwards, Albert Lea, Minn., Edwards.

DRUG MILLS.

Nordyke & Marmon Company, Indianapolis, Ind. See index to ads
 L. J. Miller, Cincinnati, O., Nonpareil.

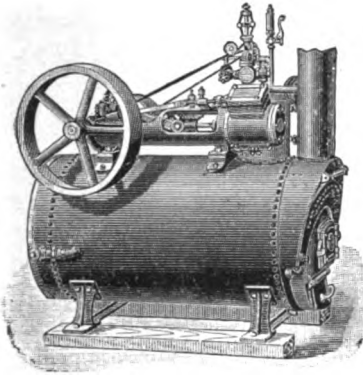
PORTABLE ENGINES.

F. C. Austin Manufacturing Company, corner Carpenter street and Carroll avenue,
 Chicago, Ill.
 Rice & Whitacre Manufacturing Company, Chicago, Ill., Kriebel semi-portable.
 See page 64.
 Chas. Brunner, Peru, Ill.
 Heilman Machine Works, Evansville, Ind., Heilman.
 Kratz Bros., Evansville, Ind.
 Nordyke & Marmon Company, Indianapolis, Ind. See index to ads.
 Atlas Engine Works, Indianapolis, Ind.
 Chandler & Taylor Company, Indianapolis, Ind., semi-portable
 M. Rumely Company, La Porte, Ind. See page 64.
 Jas. G. Blythe, receiver for B. F. Dow & Co., Peru, Ind.
 Robinson & Co., Richmond, Ind., Peerless.
 Gaar, Scott & Co., Richmond, Ind. See page 64.
 Bunker & Hazard, Newell, Ia., Champion. See page 64.
 Metcalfe Manufacturing Company, Eddyville, Ky.
 Lansing Iron & Engine Works, Lansing, Mich.
 Densmore Bros., Red Wing, Minn.
 W. M. Hurlbert, Winona, Minn.
 Progress Manufacturing Company, Meridian, Miss.
 Pitts Agricultural Works, Buffalo, N. Y., Buffalo Pitts.
 Birdsall Company, Auburn, N. Y., Birdsall.
 Wood, Taber & Morse, Eaton, N. Y.
 Groton Bridge & Manufacturing Company, Groton, N. Y.
 Williams Bros., Ithaca, N. Y., Ithaca. See page 65.
 Pierce Artesian & Oil Well Supply Company, 80 Beaver street, New York, N. Y.
 Pierce.

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SPRINGFIELD, OHIO.

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PORTABLE ENGINES (Continued).

Oneida Iron Works, Oneida, N. Y.

Weston Engine Company, Painted Post, N. Y.

Westinghouse Company, Schenectady, N. Y.

A. D. Peck, Jordan, N. Y.

Chas. Millar & Son, Utica, N. Y.

Watertown Steam Engine Company, Watertown, N. Y.

Star Drilling Machine Company, Akron, O., Star.

Lane & Bodley Company, Cincinnati, O.

Ritchie & Dyer Company, Hamilton, O., Hamilton.

Marion Manufacturing Company, Marion, O., Leader.

Aultman & Taylor Company, Mansfield, O., Baby Elephant, Standard, Samson, Ajax.

Mansfield Machine Works, Mansfield, O.

L. Spence, Martin's Ferry, O.

Russell & Co., Massillon, O., Russell, Automatic.

Scheidler Machine Works, Newark, O., Scheidler.

Hugh Wright & Sons, New Lisbon, O., Farmer's automatic.

Paige Manufacturing Company, Painesville, O., Triumph.

M. L. Edwards Manufacturing Company, Salem, O.

Common Sense Engine Company, Springfield, O., Common Sense.

O. S. Kelly Company, Springfield, O. See index to ads.

Leffel Water Wheel & Engine Company, Springfield, O.

Jas. Leffel & Co., Springfield, O., Bookwalter. See ad. above.

Taylor Manufacturing Company, Chambersburgh, Pa.

Skinner Engine Company, Erie, Pa.

T. M. Nagle, Erie, Pa.

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PORTABLE ENGINES (Continued).

Crowell Manufacturing Company, Greencastle, Pa.
 Frick Company, Waynesborough, Pa., Eclipse.
 Geiser Manufacturing Company, Waynesborough, Pa., Peerless.
 J. I. Case Threshing Machine Company, Racine, Wis.
 S. Freeman & Sons Manufacturing Company, Racine, Wis.
 Racine Hardware Manufacturing Company, Racine, Wis., Racine automatic.

FARM ENGINES ON WHEELS, BUT NOT TRACTION.

H. W. Rice, San Francisco, Cal.
 Byron Jackson, San Francisco, Cal., Jackson's.
 Geo. W. Brown & Co., Galesburgh, Ill.
 Pitts Manufacturing Company, Marsilles, Ill.
 Heilman Machine Works, Evansville, Ind.
 Robinson & Co., Richmond, Ind.
 Jas. G. Blythe, receiver for B. F. Dow & Co., Peru, Ind.
 John S. Davis' Sons, Davenport, Ia. See index to ads.
 Hagerstown Steam Engine & Machine Company, Hagerstown, Md., Empire.
 Nichols & Shepard Company, Battle Creek, Mich.
 Lansing Iron & Engine Works, Lansing, Mich.
 P. K. Dederick & Co., Albany, N. Y.
 A. W. Stevens & Son, Auburn, N. Y., Stevens.
 The Birdsall Company, Auburn, N. Y.
 Wood, Taber & Morse, Eaton, N. Y.
 B. W. Payne & Sons, Elmira, N. Y.
 Reynolds & Lang, Ithaca, N. Y., Forest City.
 Oneida Iron Works, Oneida, N. Y.
 Ames Iron Works, Oswego, N. Y.
 Weston Engine Company, Painted Post, N. Y.
 St. Johnsville Agricultural Works, St. Johnsville, N. Y.
 The Westinghouse Company, Schenectady, N. Y.
 Watertown Steam Engine Company, Watertown, N. Y.
 C. Aultman & Co., Canton, O.
 D. June & Co., Fremont, O., Champion.
 Ritchie & Dyer Company, Hamilton, O., Hamilton.
 Mansfield Machine Works, Mansfield, O.
 Russell & Co., Massillon, O.
 C. & G. Cooper & Co., Mt. Vernon, O.
 O. S. Kelly Company, Springfield, O. See index to ads.
 James Leffel Company, Springfield, O. See page 59.
 Griffith & Wedge Company, Zanesville, O.
 Taylor Manufacturing Company, Chambersburgh, Pa.
 T. M. Nagle, Erie, Pa.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

FARM ENGINES ON WHEELS, BUT NOT TRACTION (Continued).

Skinner Engine Company, Erie, Pa.
Harrisburg Car Manufacturing Company, Harrisburg, Pa.
E. B. Marsh & Bro., Snydersville, Pa.
Smalley Manufacturing Company, Manitowoc, Wis., Smalley.
J. I. Case T. M. Company, Racine, Wis.

SAP SPOUTS AND BUCKETS.

E. Mosher, Holly, Mich., Mosher's.
Charles Millar & Son, Utica, N. Y., Willis.
Record Manufacturing Company, Conneaut, O., Record.
H. W. Hescoc, Hubbard, O., Eureka White Metal pails.
G. H. Grimm Manufacturing Company, Hudson, O.
C. C. Post, Burlington, Vt., Eureka.

ENGINES.

Rice & Whitacre Manufacturing Company, Chicago, Ill., Kriebel. See page 64.
Charles Kaestner & Co., 311 S. Canal street, Chicago, Ill.
Peoria Engine & Thresher Company, Peoria, Ill.
Streator Engine & Machine Works, Streator, Ill., Bacon three cylinder.
Anderson Foundry & Machine Works, Anderson, Ind., Anderson Chief.
Progress Engine & Machine Works, Summerfield, Md.
Den Bleyker Manufacturing Company, Kalamazoo, Mich., Kimble.
Progress Manufacturing Company, Meridian, Miss.
Kingsland & Douglas Manufacturing Company, St. Louis, Mo.
Salem Iron Works, Salem, N. C., Dixie.
S. S. Messinger & Son, Tatamy, Pa., Empire.
Livermore Foundry & Machine Company, Memphis, Tenn.

STATIONARY ENGINES.

Stearns Manufacturing Company, Los Angeles, Cal.
Byron Jackson, San Francisco, Cal., Jackson's.
Geo. L. Grier & Son, Milford, Del.
Schofield's Iron Works, Macon, Ga., Georgia.
R. D. Cole Manufacturing Company, Newnan, Ga.
Chas. Kaestner & Co., 311 S. Canal street, Chicago, Ill.
Rice & Whitacre Manufacturing Company, Chicago, Ill., The Kriebel. See page 64.
D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
Geo. W. Brown & Co., Galesburgh, Ill., Knox.
Streator Engine & Machine Works, Streator, Ill., Bacon three cylinder.
Kratz Bros., Evansville, Ind.
Heilman Machine Works, Evansville, Ind., Heilman.

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STATIONARY ENGINES (Continued).

Atlas Engine Works, Indianapolis, Ind.
Chandler & Taylor Company, Indianapolis, Ind.
Richmond Machine Works, Richmond, Ind.
Robinson & Co., Richmond, Ind.
Progress Engine & Machine Works, Summerfield, Md., Progress.
Lansing Iron & Engine Works, Lansing, Mich.
Wilson & Hendrie, Montague, Mich.
Pearl River Foundry & Agricultural Works (Chas. Williams, prop.), Jackson, Miss.
O. J. Little, Deckertown, N. J.
Jno. T. Noye Manufacturing Company, Buffalo, N. Y., Rice's automatic cut-off.
Wood, Taber & Morse, Eaton, N. Y.
B. W. Payne & Sons, Elmira, N. Y.
W. H. Shepard & Sons, Havana, N. Y., Shepard vacuum engine.
Reynolds & Lang, Ithaca, N. Y., Daisy Queen, one to six horse power.
Oneida Iron Works, Oneida, N. Y.
Ryan-McDonald Manufacturing Company, Waterloo, N. Y.
Watertown Steam Engine Company, Watertown, N. Y.
Liddell & Co., Charlotte, N. C., Liddell-Thompkins.
Salem Iron Works (C. A. Hedge, prop.), Salem, N. C., Dixie.
C. Aultman & Co., Canton, O., Star, Monitor.
D. June & Co., Fremont, O., Champion.
Ritchie & Dyer Company, Hamilton, O., Hamilton.
Aultman & Taylor Company, Mansfield, O.
Mansfield Machine Works, Mansfield, O.
L. Spence, Martin's Ferry, O.
Russell & Co., Massillon, O.
Scheidler Machine Works, Newark, O., Scheidler.
Klatz & Kromer Machine Company, Sandusky, O.
Jas. Leffel & Co., Springfield, O., Bookwalter. See page 59.
Common Sense Engine Company, Springfield, O., Common Sense.
Taylor Manufacturing Company, Chambersburg, Pa.
Corry City Iron Works, Corry, Pa.
Skinner Engine Company, Erie, Pa.
T. M. Nagle, Erie, Pa.
Harrisburg Car Manufacturing Company, Harrisburg, Pa.
Totten & Hogg Iron & Steel Foundry Company, Pittsburgh, Pa.
Frick Company, Waynesborough, Pa.
Geiser Manufacturing Company, Waynesborough, Pa., Peerless
Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa.
Milburn Gin & Machine Company, Memphis, Tenn.
Livermore Foundry & Machine Company, Memphis, Tenn.
Richard's Iron Works, Manitowoc, Wis.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

STATIONARY ENGINES (Continued).

J. I. Case Threshing Machine Company, Racine, Wis.
S. Freeman & Sons Manufacturing Company, Racine, Wis.

TRACTION ENGINES.

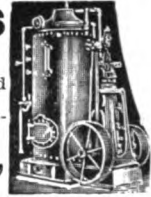
Byron Jackson, San Francisco, Cal., Jackson's.
Harrison Machine Works, Belleville, Ill., Jumbo.
Heilman Machine Works, Evansville, Ind., Heilman's.
F. Kitten, Ferdinand, Ind.
M. Rumely Company, La Porte, Ind., New Rumely. See page 64.
Jas. G. Blythe, receiver for B. F. Dow & Co., Peru, Ind.
Robinson & Co., Richmond, Ind., Conqueror.
Gaar, Scott & Co., Richmond, Ind., King of the Traction. See page 64.
John S. Davis' Sons, Davonport, Ia. See index to ads.
Hagerstown Steam Engine & Machine Company, Hagerstown, Md., Empire.
Nichols & Shepard Company, Battle Creek, Mich.
Frick Company, Waynesborough, Pa., Eclipse.
A. B. Farquhar Company, Ltd., York, Pa.
Advance Thresher Company, Battle Creek, Mich., Advance.
Upton Manufacturing Company, Port Huron, Mich.
Lansing Iron & Engine Works, Lansing, Mich.
Minneapolis Threshing Machine Company, Minneapolis, Minn., Minneapolis.
Minnesota Thresher Manufacturing Company, Stillwater, Minn., Minnesota Giant,
Stillwater.
Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Watertown.
The Birdsall Company, Auburn, N. Y., Birdsall.
The Pitts Agricultural Works, Buffalo, N. Y., Buffalo Pitts.
Wood, Taber & Morse, Eaton, N. Y.
Groton Bridge & Manufacturing Company, Groton, N. Y.
Reynolds & Lang, Ithaca, N. Y., Forest City.
Ames Iron Works, Oswego, N. Y.
The Westinghouse Company, Schenectady, N. Y.
Ryan-McDonald Manufacturing Company, Waterloo, N. Y., Wide Awake.
Watertown Steam Engine Company, Watertown, N. Y.
C. Aultman & Co., Canton, O.
D. June & Co., Fremont, O.
Ritchie & Dyer Company, Hamilton, O., Ritchie.
The Aultman & Taylor Company, Mansfield, O., Eureka.
Huber Manufacturing Company, Marion, O., New Huber.
Marion Manufacturing Company, Marion, O., Leader.
L. Spence, Martin's Ferry, O., Rhodehaver.
Russell & Co., Massillon, O., Russell.
C. & G. Cooper & Co., Mt. Vernon, O.

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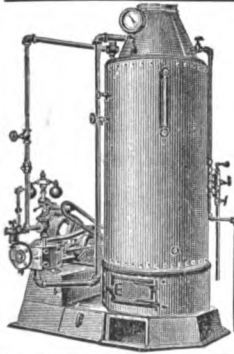
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TRACTION ENGINES (Continued).

Scheidler Machine Works, Newark, O., Scheidler.
 O. S. Kelly Company, Springfield, O. See index to ads.
 Frick Company, Waynesborough, Pa.
 Harrisburg Car Manufacturing Company, Harrisburg, Pa.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa.,
 Farquhar.
 Geiser Manufacturing Company, Waynesborough, Pa., Peerless.
 J. I. Case Threshing Machine Company, Racine, Wis.

OIL BURNING ENGINES.

Rice's Engine Works, 56 Bluxome street, San Francisco, Cal.
 S. L. Wilson, 223 N. Broad street, Philadelphia, Pa., Acme automatic.

STRAW BURNING ENGINES.

Rice's Engine Works, 56 Bluxome street, San Francisco, Cal.
 Gaar, Scott, & Co., Richmond, Ind., plain and traction. See page 64.
 M. Rumely Company, La Porte, Ind., traction and portable. See page 64.
 Nichols & Shepard Company, Battle Creek, Mich.
 Minnesota Thresher Manufacturing Company, Stillwater, Minn., Giant traction.

THE SOUTH BEND
Spark Arrester



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Spark
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ITHACA, N. Y.

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STRAW BURNING ENGINES (Continued).

Pitts Agricultural Works, Buffalo, N. Y., Buffalo Pitts.
C. Aultman & Co., Canton, O., Phœnix.
Aultman & Taylor Company, Mansfield, O.

DAIRY ENGINES.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.
Robinson & Co., Richmond, Ind., Peerless.
Novelty Iron Works, Dubuque, Ia. See index to ads.
H. McK. Wilson & Co., St. Louis, Mo.
John S. Carter, Syracuse, N. Y.
Childs & Jones, Utica, N. Y.
Charles Millar & Son, Utica, N. Y.
James Leffel & Co., Springfield, O.
P. M. Sharples, West Chester, Pa., and Elgin, Ill.
Frick Company, Waynesborough, Pa.
Geiser Manufacturing Company, Waynesborough, Pa.

SPARK ARRESTERS.

South Bend Spark Arrester Company, South Bend, Ind. See page 65.

DUSTLESS SEPARATORS.

Dakota Manufacturing Company, Scotland, S. Dak., separators for elevators.
Novelty Iron Works, Dubuque, Ia. See index to ads.
A. P. Dickey Manufacturing Company, Racine, Wis., Dickey. See page 70.
E. H. Pease Manufacturing Company, Racine, Wis., Pease separator. See page 69.
Johnson & Field Company, Racine, Wis., Racine. See page 70.

DUST COLLECTORS FOR THRESHING MACHINES.

W. H. Davis & Co., El Dorado, O., Little Giant.
Wm. S. Miller, Meyersdale, Pa.

GRAIN ELEVATOR SUPPLIES.

Novelty Iron Works, Dubuque, Ia. See index to ads.
E. H. Pease Manufacturing Company, Racine, Wis. See page 69.

END GATES.

Staver & Abbott Manufacturing Company, Chicago, Ill., Staver Perfection.

CLEVISES.

L. A. Weyburn Company, Rockford, Ill., Ideal swivel clevises.
Thos. Meikle & Co., Louisville, Ky.
Jas. L. Haven Company, Cincinnati, O.
Racine Hardware Manufacturing Company, Racine, Wis., Safety, Monarch.
Monarch Clevis Company, Madison, Wis.

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SPRING SINGLETREES, DOUBLETREES AND SINGLETREES.

Towers & Sullivan Manufacturing Company, Rome, Ga.
 Farmers Manufacturing & Supply Company, Indianapolis, Ind., Frederick Patent.
 F. R. Willson, Columbus, O., Willson, all sizes for light and heavy work.

PORTABLE FARM FORGES.

Frank E. Fitts Manufacturing & Supply Company, 76 Pearl street, Boston, Mass.
 J. H. Arnold & Son, Lyons, Mich.
 Buffalo Forge Company, Buffalo, N. Y., Buffalo.
 Empire Portable Forge Company, Lansingburgh, N. Y., Empire without belt, Western with belt, Farmers'.
 A. J. Gunter & Co., Cincinnati Plow & Bellows Works, Cincinnati, O.
 Holt Manufacturing Company, Cleveland, O.
 Foos Manufacturing Company, Springfield, O., Scientific.

FARM BELLS.

H. G. Chamberlin & Co., Hudson, Mich.
 G. W. Arnold & Son, Ionia, Mich., Ionia steel.
 Jas. L. Haven Company, Cincinnati, O.
 Lehr Agricultural Company, Fremont, O.
 Sutton Bros. & Bell, Indiana, Pa.
 Hauck & Comstock, Mechanicsburgh, Pa. See page 42.

BELLOWS.

A. J. Gunter & Co., Cincinnati Plow & Bellows Works, Cincinnati, O., C. L. English.

FURNACES FOR EVAPORATORS AND HOPS.

Donaldson Bros., Mt. Clemens, Mich.
 Stringer, Dexter & Co., Munnsville, N. Y.
 J. S. & M. Peckham, Utica, N. Y.

FRUIT EVAPORATORS.

George S. Grier & Son, Milford, Del., The Champion.
 J. T. King, La Grange, Ga., Monarch fruit dryer.
 T. J. & J. M. Price, Macomb, Ill., T. J. Price's patent.
 D. Stutzman, Ligonier, Ind., Farmer's Favorite.
 Steam Heat Evaporator Company, Charlotte, Mich., Acme and Combination.
 J. A. Field & Co., St. Louis, Mo., Geiger's.
 Birdsall Company, Auburn, N. Y., Stringer fruit evaporators.
 Blymyer Iron Works Company, Cincinnati, O., Zimmerman.
 Zimmerman Machine Company, Cincinnati, O.
 G. H. Grimm Manufacturing Company, Hudson, O.
 American Manufacturing Company, Waynesborough, Pa., American.
 Vermont Farm Machine Company, Bellows Falls, Vt.

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SORGHUM EVAPORATORS.

T. J. & J. M. Price, Macomb, Ill.
 Seward & Co., Bloomington, Ind., Seward's patent.
 Chapman & Co., Madison, Ind., Automatic self-skimming, Perpetual.
 Brennan & Co. South Western Agricultural Works, Louisville, Ky., Kentucky, Improved Cook.
 Densmore Bros., Red Wing, Minn., Jno. F. Porter patent.
 George K. Oyler & Co., St. Louis, Mo., Cook's, Oyler's.
 Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Cook's.
 Victor Steam Evaporator Company, 118 W. Seventh street, Cincinnati, O.
 James L. Haven Company, Cincinnati, O.
 Warren Evaporator Works, Warren, O., I. X. L., Eureka.
 Blymyer Iron Works Company, Cincinnati, O., Cook and Automatic Cook.
 H. W. Hescok, Hubbard, O., Eureka.
 G. H. Grimm Manufacturing Company, Hudson, O., Champion, for maple, sorghum, cider, and fruit jellies, also sap tanks.
 Chattanooga Plow Company, Chattanooga, Tenn.
 Vermont Farm Machine Company, Bellows Falls, Vt., Williams' Bellows Falls.
 Champion Evaporator Company, Richford, Vt., Defiance, Champion.

SUGAR EVAPORATORS.

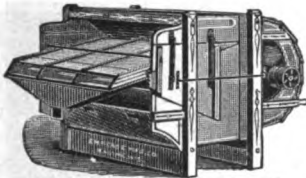
J. A. Field & Co., St. Louis, Mo., Stubbs', Cook's.
 Kingsland & Douglas Manufacturing Company, St. Louis, Mo.
 W. G. Graves, Champlain, N. Y.
 Wheeler & Severance, Chazy, N. Y., Wheeler's New Process.
 Jas. L. Haven Company, Cincinnati, O.
 H. W. Hescok, Hubbard, O., Eureka.
 G. H. Grimm Manufacturing Company, Hudson, O., Champion.
 C. C. Post, Burlington, Vt.
 Champion Evaporator Company, Richford, Vt., Champion.

FANNING MILLS.

H. D. Nash & Co., 908 Ninth street, Sacramento, Cal., Nash, Cutts.
 D. T. Weed, Lanark, Ill.
 Trappe Bros., Mascoutah, Ill., Queen of the West.
 Kirkwood, Miller & Co., Peoria, Ill., K. M. & Co.
 Thos. M. Bales, Dublin, Ind., Midget.
 J. F. Hatfield, Dublin, Ind.
 Joseph K. Edgerton, Ft. Wayne, Ind., Osborn.
 E. F. Michael Company, La Porte, Ind., Michael Improved, Pacific Coast.
 Eclipse Manufacturing Company, Middlebury, Ind., Eclipse.
 Whitman Agricultural Works, Auburn, Me.
 Ames Plow Company, Quincy Hall, Boston, Mass., and New York, N. Y., Boston, Grant's.

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PEASE FARM AND WARE-HOUSE FANNING MILLS



PEASE END-SHAKE MILL FOR WARE-HOUSE.

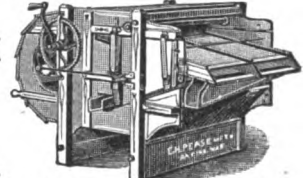
**CAN FURNISH
MILLS
WITH SPECIAL
SIEVING
TO DO ANY
SPECIAL
KIND OF WORK DESIRED.**



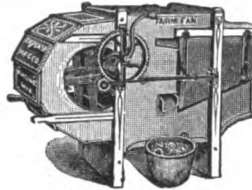
"ADAMS" ALL IRON BAG TRUCKS.

**GUARANTEED
TO DO
MORE AND BETTER WORK
THAN ANY OTHER,
--IN--
CLEANING, SEPARATING
AND
GRADING**

All kinds of Grain & Seeds.



PEASE SIDE-SHAKE MILL FOR WARE-HOUSE.

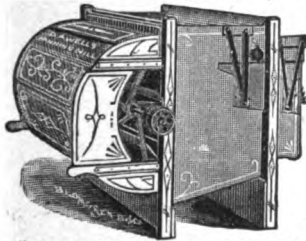


PEASE FARM FAN.



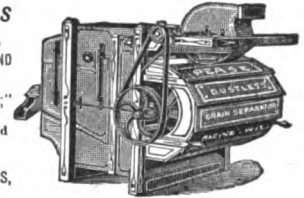
HOLDER COMBINED.

**SEND FOR
CATALOGUES
AND
PRICES.**



"WELLS" WARE-HOUSE MILL, EXTRA LARGE CAPACITY.

**WE ARE HEADQUARTERS
FOR SHAFTING, HANGERS, PULLEYS,
GEARS, SPROCKET WHEELS, "SWEEP" AND
"TREAD" HORSE-POWERS,
ELEVATOR "BOOTS," "HEADS," "BUCKETS,"
FEED GRINDERS,
Special Flax Mills, Single, Double and
Quadruple Flax Reels;
POWER CAR PULLERS,
OAT CLIPPERS, SEPARATORS AND CRADERS,
Dustless Warehouse Receiving
Separators, Grain Polishers & Graders.
All kinds of Fittings, Supplies
and Machinery for Elevators and Mills.
ELEVATOR EQUIPMENT A SPECIALTY.**



PEASE DUSTLESS SEPARATOR
FOR
WARE-HOUSES AND MILLS.

E. H. PEASE M'FG CO., RACINE, WIS.

FANNING MILLS (Continued).

Vindicator Fanning Mill Company, Holland, Mich., Vindicator.

B. Wright & Son, Hudson, Mich.

P. Poyneer, Kalamazoo, Mich.

J. A. Bradmon, Lansing, Mich., Granger.

Myron H. Smith, Lawton, Mich., Smith's.

L. H. Bennett, Plymouth, Mich., Plymouth.

C. D. Edwards, Albert Lea, Minn., O. K. wheat and cockle separators.

M. Grollmund, Fergus Falls, Minn., Fergus Falls.

John Lucas, Hastings, Minn., Hasting's cockle, cheat, flax and wheat mills, also seed separator.

J. L. Owens & Co., Minneapolis, Minn., Owens' end shake, Owens' dustless.

Keller Manufacturing Company, Sauk Centre, Minn., Keller.

J. A. Field & Co., St. Louis, Mo., Farmers' Friend.

Schoharie County Agricultural Works (S. K. Campbell), Central Bridge, N. Y.

Minard Harder, Cobleskill, N. Y., improved bevel mill. See index to ads.

W. A. Mallery, Hillsdale, N. Y., Bryan.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

JOHNSON & FIELD COMPANY,

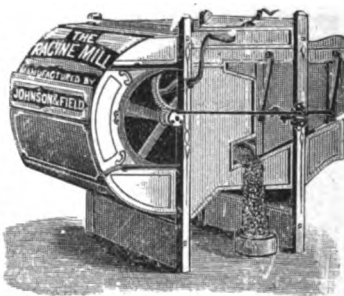
RACINE, WISCONSIN.

Manufacturers of the "RACINE DUSTLESS SEPARATOR" and
Farm and Warehouse

Fanning Mills.

These mills are used extensively by farmers, millers and grain and seed dealers throughout the United States, who highly recommend them as being the BEST MILL ever made for cleaning and grading wheat, barley, oats, corn and seeds of every description.

They do the work more thoroughly, have greater capacity than other mills. They are strongly built of the very best material, highly finished, and are made in four different sizes, two for farm use, and two for warehouse elevator and millers' use. They are warranted to give satisfaction. Write for prices before purchasing any other mill.



THE A. P. DICKEY MFG. CO.,

RACINE,
WIS.

MANUFACTURERS OF THE

**CELEBRATED DICKEY FANNING MILLS AND DUSTLESS SEPARATORS,
THE STANDARD GRAIN CLEANERS OF THE WORLD.**

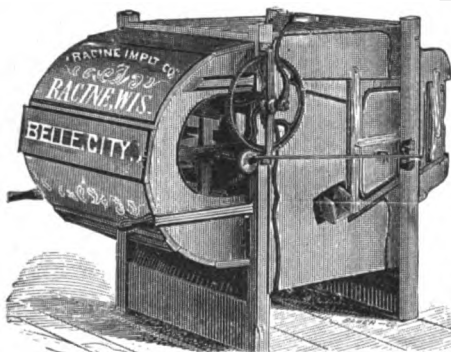
Made in all sizes, both end and side shake.

Capacity from 40 to 1,000 Bushels per Hour.

BOB-SLEDS AND LAND ROLLERS

2, 3 and 4-Section, in Oak Stave and Cast Iron.
Rolling from 6 to 16 feet.

ALL ROLLERS FURNISHED WITH STEEL SHAFTS.



Belle City Fanning Mill.

Made in Five Sizes

For Farm and Warehouse Use.

Will separate in the most perfect manner all kinds of grain and seed.

Dealers are requested to correspond with us, as we are making a special low price to the trade.

Racine Implement Co.,
RACINE, WIS.

FANNING MILLS (Continued).

Grant Fan-Mill & Cradle Company, Melrose, N. Y., D. H. Viall grain, coffee and rice fanning mills.

Jerry Bros., West Chazy, N. Y., Climax, Queen of the Harvest.

Newark Machine Company, Columbus, O., Monarch.

John Hosford, Monroeville, O., Buckeye.

J. E. Smith, Shiloh, O., Clipper.

Ezra Montgomery, Waterloo, Pa.

J. S. Rowell Manufacturing Company, Beaver Dam, Wis., Angle Sieve.

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FANNING MILLS (Continued).

- L. S. & A. J. Blake, Racine, Wis., Champion.
 A. P. Dickey Manufacturing Company, Racine, Wis., Giant warehouse mills and Young Giant farm mills. See page 70.
 E. H. Pease Manufacturing Company, Racine, Wis., Excelsior, Pease, D. A. Wells farm and warehouse mills. See page 69.
 E. P. Dickey Racine Fanning Mill Company, Racine, Wis., Pacific, American Sifter, Little Chief, Excelsior.
 Johnson & Field Company, Racine, Wis., Racine farm, elevator and warehouse mills. See page 70.
 Foster & Williams, Racine, Wis., Badger state. See index to ads.
 Racine Implement Company, Racine, Wis., Belle City. See page 70.
 S. Freeman & Sons Manufacturing Company, Racine, Wis., Centennial, Freeman's Angle Sieve.

BEAN CLEANERS AND SEPARATORS.

- Johnson & Field Company, Racine, Wis., Racine.

EQUALIZERS.

- Famous Manufacturing Company, Chicago, Ill., Perfect three horse. See index to ads.
 J. L. Powles, Goodland, Ind., four horse.
 Farmers Manufacturing & Supply Company, Indianapolis, Ind., Frederick three horse.
 J. C. Rice, Grundy Centre, Ia., four horse.
 A. B. Clippinger & Bro., Centralia, Kan., Clippinger three horse.
 Thomas Elliott, Tecumseh, Mich., three horse.
 C. D. Edwards, Albert Lea, Minn., Edwards four horse.
 Brown, Boynton & Co., La Crosse, Wis., Farmer's Perfect.
 C. B. Herrick & Co., Racine, Wis., Healy pattern.
 Racine Hardware Manufacturing Company, Racine, Wis.

ANVIL AND VISE.

- Joseph Allen, Jr., Palmyra, N. Y., Allen's Combined.
 Holt Manufacturing Company, Cleveland, O., Holt's Combined.
 Foos Manufacturing Company, Springfield, O., Scientific.

FARMERS' AND BLACKSMITHS' TOOLS.

- Buffalo Forge Company, Buffalo, N. Y., Buffalo.
 Empire Portable Forge Company, Lansingburgh, N. Y., Farmer's.
 W. A. Cowley & Son, Stamford, N. Y.
 Jas. L. Haven Company, Cincinnati, O.
 Holt Manufacturing Company, Cleveland, O.
 M. L. Edwards Manufacturing Company, Salem, O.
 Foos Manufacturing Company, Springfield, O., Scientific.

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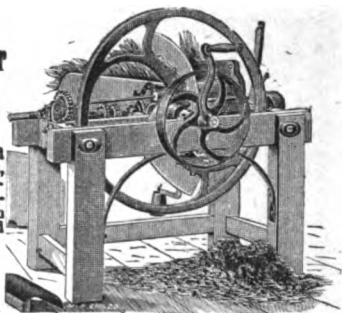


BELLE CITY
Ensilage and Fodder
CUTTERS.

Only Self-Feeder Made
in 12 Different Sizes.

Horse Powers, Hand and
Water Carts, Saw Frames,
Feed Grinders, Root Cut-
ters, Harrows and Cultiva-
tors. Latest work on
Ensilage, and Illustrated
Catalogue sent FREE.

BELLE CITY
Mfg. Co.
RACINE, WIS.



HAY, FEED AND ENSILAGE CUTTERS.

Higganum Manufacturing Corporation, Higganum, Conn., Sherman.

C. Pierpont & Co., New Haven, Conn., Baldwin.

Challenge Wind Mill & Feed Mill Company, Batavia, Ill.

Schmid Patent Feed Cutter Manufacturing Company, Beardstown, Ill., Schmid.

Star Manufacturing Company, Carpentersville, Ill.

F. C. Austin Manufacturing Company, Carpenter street and Carroll avenue, Chi-
cago, Ill., Austin.

Staver & Abbott Manufacturing Company, 383 Wabash avenue, Chicago, Ill.,
Buckeye.

Stover Manufacturing Company, Freeport, Ill., Ideal.

Pitts Manufacturing Company, Marseilles, Ill., Seaman's Patent.

Sandwich Manufacturing Company, Sandwich, Ill., Samson.

Keystone Manufacturing Company, Sterling, Ill., Keystone combined corn husker
and fodder cutter. See page 18.

Dublin Agricultural Company, Dublin, Ind., iron and wood clad lever cutters.

Frank N. Champe, Dublin, Ind.

Wayne Works, Richmond, Ind., Moon, Champion.

E. A. Porter & Bros., Bowling Green, Ky., ear corn and straw cutter.

Brennan & Co. South Western Agricultural Works, Louisville, Ky., Lever,
Sanford, Dexter, Diamond, Cummings.

Jno. Goulding, Louisville, Ky., Sanford straw and feed cutter.

Whitman Agricultural Works, Auburn, Me., Whitman's Derby Royal.

Hagerstown Iron Works, Hagerstown, Md., U. S. hand cutter.

Ames Plow Company, Boston, Mass., and New York, N. Y., Doctor Bailey, Rich's
lever.

Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., Lion, Union,
and New York lever, self-sharpening cylinder cutters.

Taylor & Gale, Chicopee Falls, Mass., Champion ensilage, Victor lever cutters.

H. A. Currier, Almont, Mich., Champion and revolving knife.

Ann Arbor Agricultural Company, Ann Arbor, Mich., Cummings, Clipper, lever.

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DEALERS - -

Who want to be up to the times and handle the **BEST HAND FEED CUTTER MADE**, will write to us for Catalogue and Price List of the

TRY ME

Cutters. They are low priced and all "**WARRANTED TO PLEASE**" or no sale.

G. S. GARTH & SONS, Mill Hall, Pa.



HAY, FEED AND ENSILAGE CUTTERS (Continued).

Castree-Mallery Company, Flint, Mich., lever box.

Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich. See page 79.

G. W. Arnold & Son, Ionia, Mich.

Wilder Manufacturing Company, Monroe, Mich., Swiss hand and power.

Donaldson Bros., Mt. Clemens, Mich., King lever.

Morton Manufacturing Company, Romeo, Mich., Monarch.

F. B. Bignell, Smyrna, Mich., Smyrna.

R. R. Howell & Co., Minneapolis, Minn.

Diamond Feed Mill Manufacturing Company, Owatonna, Minn., Diamond.

J. A. Field & Co., St. Louis, Mo., J. A. F.

Whitman Agricultural Company, St. Louis, Mo., Whitman's St. Louis rotary, Whitman's lever, Whitman's Sanford.

Sergeant Manufacturing Company, Greensborough, N. C., Smith lever cutters.

C. M. Thompson, Lexington, N. C., Eastman.

Chas. Schoepflin & Bro., Gardenville, N. Y., Gardenville, Electro.

Gowanda Agricultural Works Company, Gowanda, N. Y., Champion, Star, Gowanda

W. Eddy & Sons, Greenwich, N. Y., Yankee Blade.

Frank Maute, Lancaster, N. Y., Paragon.

Carr & Co., 89 Wall street, New York, N. Y., Tiger, Hide Roll, Clinton lever.

A. B. Cohu Company, 197 Water street, New York, N. Y., Common Sense.

H. N. Hubbard, 86 Chambers street, New York, N. Y., hide roller, copper strip, lever.

Geo. Parnell, Ontario, N. Y., Parnell, Dandy.

Gordon & De Garmo, Rochester, N. Y., Empire.

Apex Manufacturing Company, Canton, O., The Apex.

Dick's Agricultural Works (Joseph Dick), Canton, O., Dick's Famous.

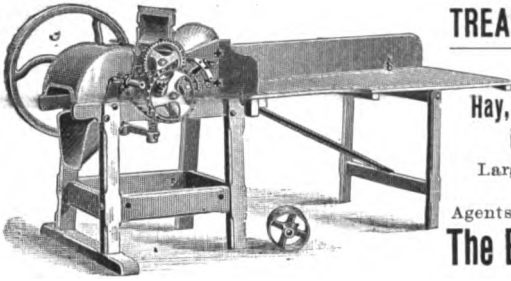
W. R. Harrison & Co., Canton, O., Tornado, Acme lever.

American Foundry & Machine Company, Bowling Green, O., Champion hand and power.

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ROSS FODDER AND ENSILAGE CUTTERS.

TREAD AND SWEEP HORSE POWERS



Special Cutters for

Hay, Straw, Sorghum and Sugar Cane.

LATEST IMPROVEMENTS.

Largest factory in this line in the world.

GOODS THOROUGHLY GUARANTEED.

Agents wanted. Send for prices and discounts

The E. W. ROSS CO.

**SPRINGFIELD,
OHIO.**

HAY, FEED AND ENSILAGE CUTTERS (Continued).

- Lehr Agricultural Company, Fremont, O., Monarch, New English.
 Long & Allstatter Company, Hamilton, O.
 Eagle Machine Company, Lancaster, O., Eagle.
 Hocking Valley Manufacturing Company, Lancaster, O., Boss, Hocking Valley.
 M. L. Edwards Manufacturing Company, Salem, O., Lightning.
 Silver Manufacturing Company, Salem, O., Ohio hand and power.
 E. W. Ross Company, Springfield, O., New Ross, Little Giant. See ad. above.
 Roberts Machine Company, Collegeville, Pa., Clipper.
 Columbia Agricultural Works, Columbia, Pa., Hand.
 Daniel Hulshizer, Doylestown, Pa., Advance.
 A. Buch & Son, Elizabethtown, Pa., Lighthouse.
 Krauss Bros., Geryville, Pa., Kraussdale.
 Sutton Bros. & Bell, Indiana, Pa.
 Heebner & Sons, Lansdale, Pa., Heebner's Union.
 Hauck & Comstock, Mechanicsburgh, Pa., Lion, Telephone and K. D. See page 42.
 George S. Garth & Sons, Mill Hall, Pa., Little Giant, Try Me, Jumbo hand cutters.
 Monroeton Manufacturing Company, Monroeton, Pa., Northrop lever.
 W. L. Boyer & Bro., Germantown avenue and Diamond street, Philadelphia, Pa. Climax.
 Y. C. Freed & Co., Royersford, Pa.
 Hench & Dromgold, York, Pa., Daisy.
 Spangler Manufacturing Company, York, Pa., Spangler and Go Easy.
 W. A. Maloney, Telford, Tenn., New Virginian, Smith.
 Daniels Machine Company, Woodstock, Vt.
 Look & Lincoln, Marion, Va.
 S. R. White & Bro., Norfolk, Va., Daisy, Smith's lever.
 H. M. Smith & Co., Richmond, Va., Smith's patent lever.
 Lynn & Co., Staunton, Va.
 A. Hamacek & Co., Ahnapee, Wis., Ahnapee Monitor, Cylinder.

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HAY, FEED AND ENSILAGE CUTTERS (Continued).

- Appleton Manufacturing Company, Appleton, Wis. and Chicago, Ill., Hero. See index to ads.
- Smalley Manufacturing Company, Manitowoc, Wis., Smalley.
- H. C. Richard's Iron Works, Manitowoc, Wis., hand power.
- A. T. Zilisch, Mayville, Wis.
- D. T. H. MacKinnon, Menasha, Wis., Globe, Iron Globe.
- Peter Fischer, Milwaukee, Wis., Wisconsin.
- Belle City Manufacturing Company, Racine, Wis., Belle City. See page 72.
- Foster & Williams, Racine, Wis., Victor. See index to ads.
- S. Freeman & Sons Manufacturing Company, Racine, Wis., Freeman, also feed cutter carriers.
- Meyer & Schrage, Sheboygan, Wis., Globe.
- F. Blocki, Sheboygan, Wis., F. B.
- Kohler, Hayssen & Stehn Manufacturing Company, Sheboygan, Wis., Champion.
- B. H. & J. Sanford, Sheboygan Falls, Wis., Sheboygan Falls.
- Silberzahn Manufacturing Company, West Bend, Wis., Silberzahn.

STRAW CUTTERS FOR PAPER MILLS.

- The E. W. Ross Company, Springfield, O., Giant.
- Look & Lincoln, Marion, Va., Victor.
- Foster & Williams, Racine, Wis., Victor. See index to ads.

BELTING.

- The Chesapeake Belting Company, Baltimore, Md., Chesapeake stitched canvas belting. See index to ads.
- The Gandy Belting Company, Baltimore, Md., Gandy sewed cotton duck belting.

VEGETABLE AND ROOT CUTTERS.

- Higganum Manufacturing Corporation, Higganum, Conn., Clark's.
- Whitman Agricultural Works, Auburn, Me., Whitman's Improved.
- Ames Plow Company, Boston, Mass., and New York, N. Y., New England.
- Belcher & Taylor Agricultural Tool Company, Chicopee, Falls, Mass., Farmer's and Gale.
- Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich., Grand Rapids. See page 79.
- Donaldson Bros., Mt. Clemens, Mich., King.
- Henry H. Lovejoy, Cambridge, N. Y., Boss.
- W. Eddy & Sons, Greenwich, N. Y.
- John W. Douglass, 57 Beekman street, New York, N. Y., New England.
- H. N. Hubbard, 96 Chambers street, New York, N. Y., Champion.
- Geo. Parnell, Ontario, N. Y., Parnell.
- E. R. Allen & Co., Whitesville, N. Y.

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VEGETABLE AND ROOT CUTTERS (Continued).

The E. W. Ross Company, Springfield, O., Ross. See page 74.

C. H. Moore, Toledo, O., Lightning Cabbage Cutter.

Belle City Manufacturing Company, Racine, Wis. See page 72.

FODDER TYERS.

E. Blair, Bucyrus, O., Blair's.

Wm. M. Johnston, Wilmot, O.

FLAX MACHINERY.

W. Eddy & Sons, Greenwich, N. Y.

E. H. Pease Manufacturing Company, Racine, Wis. See page 69.

FARM BOILERS.

D. R. Speiry & Co., Batavia, Ill., Profit.

J. K. Purinton, Des Moines, Ia., Purinton's Improved.

Donaldson Bros., Mt. Clemens, Mich.

W. H. Peckham, 408 Third avenue, Minneapolis, Minn., Peckham's.

Mansfield Machine Works, Mansfield, O.

St. Albans Foundry, St. Albans, Vt.

S. Freeman & Sons Manufacturing Company, Racine, Wis.

Madison Manufacturing Company, Madison, Wis.

FEED STEAMERS AND STEAM GENERATORS.

Voth & Duisdieker, Pekin, Ill., Western Steam Boiler.

Kirkwood, Miller & Co., Peoria, Ill., K. M. & Co.

Shoudy Manufacturing Company, Rockford, Ill., Lightning.

F. C. Austin Manufacturing Company, corner Carpenter street and Carroll avenue, Chicago, Ill.

D. H. Roe & Co., 255 Kinzie street, Chicago, Ill.

Rice & Whitacre Manufacturing Company, Chicago, Ill., Triumph. See page 64.

Bunker & Hazard, Newell, Ia., Champion. See page 64.

C. H. Dickinson, Kalamazoo, Mich., Acme.

J. K. Purinton & Co., Des Moines, Ia., Purinton.

H. M. Clark, Des Moines, Ia., O. K.

M. W. Larcomb & Co., Upper Sandusky, O., Buckeye.

FIFTH WHEELS.

The Herbrand Company, Fremont, O.

Dexter Spring Company, Pittsburgh, Pa., Ideal.

THE ACCOUNT BOOK.

Every yearly subscriber to the FARM IMPLEMENT NEWS receives a copy of the BUYER'S GUIDE as a free premium. The IMPLEMENT DEALER'S ACCOUNT BOOK is supplied only in connection with the paper and the BUYER'S GUIDE for \$1.75. Address—

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FODDER YARN.

Boston Cordage Company, Boston, Mass.

Elizabethport Cordage Company, 46 South street, New York, N. Y. See page 20.

BARLEY AND GRAIN FORKS.

Richard W. Montross, Galien, Mich., Wolverine four and six tined.

Grant Fan-Mill & Cradle Company, Melrose, N. Y., Bryan's.

PICKET MILLS.

Thomas & Albright, Goshen, Ind., Wide Awake.

Battle Creek Machinery Company, Battle Creek, Mich.

Lansing Iron & Engine Works, Lansing, Mich.

C. Wight & Son, Dayton, O., Gem City.

J. R. Ashton Machinery Company, Lima, O.

Superior Manufacturing Company, Martinsville, O., Superior.

PICKET POINTERS.

C. Wight & Son, Dayton, O., Champion.

FENCE MACHINES.

F. A. Everett, Quincy, Ill., American, Everett's fence weaver, Perfect fence builder.

Frank N. Champe, Dublin, Ind., Nellie Bly.

Goshen Fence Machine Company, Goshen, Ind., Goshen.

Flint & Walling Manufacturing Company, Kendallville, Ind., Leader.

Riter Metallic Picket Fence Company, Liberty, Ind., New American.

Elliott & Reid, Richmond, Ind., Farmer's Ideal.

Empire Machine Company, Richmond, Ind., Empire.

M. C. Henley, Richmond, Ind., Monarch.

Hoosier Drill Company, Richmond, Ind., Hoosier fence looms.

Wayne Works, Richmond, Ind., Richmond Champion.

Richmond Check Rower Company, Richmond, Ind., Little Giant Jr. portable fence looms.

Kitselman Bros., Ridgeville, Ind., Kitselman.

John P. Brown, Rising Sun, Ind.

Kalona Harrow & Fence Machine Company, Kalona, Ia., Little Prince picket fence loom.

F. Van Doren, Adrian, Mich., Advance.

Lane Bros., Flint, Mich., Lane's Patent slat and wire fence builder.

Lansing Wheelbarrow Company, Lansing, Mich.

Milan Agricultural Company, Milan, Mich., Begole Lightning.

C. D. Edwards, Albert Lea, Minn., Edwards.

Standard Manufacturing Company, Cincinnati, O.

C. Wight & Son, Dayton, O., Gem City.

Theodore B. Lecky, Holmesville, O., Buckeye.

David Eley, Jr., Lake Fork, O., Automatic.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

Satisfaction Guaranteed.

"The Queen of the Garden"

IS THE BEST AND CHEAPEST

Hand Cultivator on the Market.

I sell it entirely on its merits.

It is all Steel and Iron, weight 18 lbs.

I manufacture two styles.

Please write me once for Descriptive Circular, Price and Terms.



GEO. H. BLACK, - BUCHANAN, MICH.

FENCE MACHINES (Continued).

S. H. Garrett, Mansfield, O., Garrett.

Superior Manufacturing Company, Martinsville, O., Superior.

Lightning Fence Machine Works, Middletown, O., Lightning.

Eureka Fence Machine Company, New Paris, O., Eureka.

L. W. Fillebrown & Son, Piqua, O.

Griffith & Wedge Company, Zanesville, O., Ohio.

Wise Wagon Works, Buena Vista, Va., Wise Patent.

HAND CULTIVATORS AND GARDEN PLOWS.

California Garden Tool Company, Ferndale, Cal., I. X. L.

Comstock Bros., East Hartford, Conn., Comstock's combined seed sower, cultivator and weeder.

G. W. Cole, Canton, Ill., Cole's Improved.

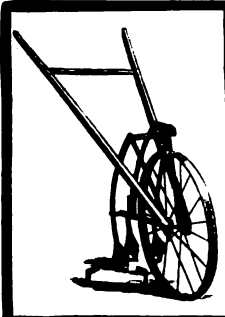
Parlin & Orendorff Company, Canton, Ill., Canton Clipper.

Deere & Mansur Company, Moline, Ill., McGee.

Moline Plow Company, Moline, Ill., Steel King. See index to ads.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia.

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Patent Barrow Cultivator.

**LIGHTEST RUNNING,
ADJUSTED QUICKER, MORE SIMPLE AND
DURABLE THAN OTHERS AT DOUBLE
THE COST.**

More rapid work can be done with it than any
other Garden Cultivator Made.

**WE ARE SOLE MANUFACTURERS.
AGENTS WANTED, WRITE FOR PRICES.**

GRAND RAPIDS MF'G & IMP'L CO., Grand Rapids, Mich.

HAND CULTIVATORS AND GARDEN PLOWS (Continued).

Kirkwood, Miller & Co., Peoria, Ill., K. M. & Co.

H. H. Palmer & Co., Rockford, Ill.

Skandia Plow Company, Rockford, Ill., Skandia.

J. A. Everitt Seed Company, Indianapolis, Ind., Everitt's.

Daisy Implement Company, Pleasant Lake, Ind., Daisy.

Collins & Nelson, Albia, Ia., Get There.

B. F. Avery & Sons, Louisville, Ky., Avery.

Ames Plow Company, Boston, Mass., and New York, N. Y., Matthews.

George H. Black, Buchanan, Mich., Queen of the Garden. See page 78.

Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich., Garden King. See ad. above.

Wilder Manufacturing Company, Monroe, Mich.

Universal Weeder Company, North Weare, N. H., Breed's Improved hand weeder and garden.

E. S. & F. Bateman, Grenloch, N. J., Gem and Jewel.

Syracuse Chilled Plow Company, Syracuse, N. Y.

Ohio Cultivator Company, Bellevue, O., Fremont.

P. P. Mast & Co., Springfield, O., Buckeye.

Josa A. Hood, Philadelphia, Pa.

S. L. Allen & Co., Philadelphia, Pa., Fire Fly.

J. M. Boyd, Fond du Lac, Wis.

GARDEN IMPLEMENTS.

Comstock Bros., East Hartford, Conn.

J. C. Vaughan, 146 W. Washington street, Chicago, Ill.

J. A. Everitt Seed Company, Indianapolis, Ind.

E. S. & F. Bateman, Grenloch, N. J.

S. A. Millard Manufacturing Company, Clayville, N. Y., Acme.

James Vick, Rochester, N. Y.

Piqua Handle & Manufacturing Company, Piqua, O.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

GARDEN ROLLERS.

Ames Plow Company, Boston, Mass., and New York, N. Y.
Superior Land Roller Company, Gouverneur, N. Y., Superior Jr.
H. N. Hubbard, 96 Chambers street, New York, N. Y., Hubbard's Improved and Fancy.
John W. Douglass, 57 Beekman street, New York, N. Y.
New York Lawn Mower Company, 69 Wall street, New York, N. Y.
Ideal Plow Company, Salem, O., Ideal.
J. W. Dunham & Son, Berea, O., Dunham.

HAND FERTILIZER DRILLS.

P. F. Randolph, Bernardsville, N. J.
E. S. & F. Bateman, Grenloch, N. J., Advance.
Riverhead Agricultural Works, Riverhead, N. Y.

GARDEN WHEEL HOES.

California Garden Tool Company, Ferndale Cal., Iron Clad, I. X. L.
C. O. Jelliff & Co., Southport, Conn., Union.
J. A. Everitt Seed Company, Indianapolis, Ind.
Daisy Implement Company, Pleasant Lake, Ind., Daisy.
Ames Plow Company, Boston, Mass., and New York, N. Y., Matthews.
E. Mosher, Holly, Mich., Mosher's.
E. S. & F. Bateman, Grenloch, N. J., Gem and Jewel.
S. L. Allen & Co., Philadelphia, Pa., Planet Jr., Fire Fly.
J. M. Boyd, Fond du Lac, Wis.

HAND SEED DRILLS AND SOWERS.

California Garden Tool Company, Ferndale, Cal., Pure Gold.
Comstock Bros., East Hartford, Conn., Comstock's combined seed sower, cultivator and weeder.
Higganum Manufacturing Corporation, Higganum, Conn., New York.
C. O. Jelliff & Co., Southport, Conn., Union seed drills, Universal onion drill.
Deere & Mansur Company, Moline, Ill., Deere garden drills.
Daisy Implement Company, Pleasant Lake, Ind., Daisy.
Champion Seeder Company, Urbana, Ind., Cyclone, Chicago, U. S., Champion Jr.
J. B. Small & Co., Boston, Mass., Matthew's Vegetable and Little Gem.
Ames Plow Company, Boston, Mass., and New York, N. Y., Matthews.
A. McKenney, Middleboro, Mass.
E. Mosher, Holly, Mich., Mosher's.
Goodell Company, Antrim, N. H., Cahoon Granger.
E. S. & F. Bateman, Grenloch, N. J., New Model.
S. L. Allen & Co., Philadelphia, Pa., Planet Jr.
Spangler Manufacturing Company, York, Pa., Spangler.
J. M. Boyd, Fond du Lac, Wis., Boyd's Bonanza seed drills.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

GRASS SEED STRIPPERS.

R. C. King, Carlisle, Ky., hand and power.

GRAIN CRADLES.

Thomas C. Fisher, Anderson, Ind., Champion, Turkey Wing.

D. Snively, Benton, Ind.

Seymour Manufacturing Company, Seymour, Ind., and St. Louis, Mo., Creedmoor,
Joshua Berry, Seymour.

Iowa Farming Tool Company, Ft. Madison, Ia., Prize.

O. N. Avery, Allen, Mich.

Milo Ingraham & Son, Flowerfield, Mich., Flowerfield.

Withington & Cooley Manufacturing Company, Jackson, Mich., Morgan, Mulay,
Turkey Wing.

Auburn Manufacturing Company, Auburn, N. Y.

W. D. Spear, Conewango, N. Y., Go-ahead, Turkey Wing.

Luther Whitney, Mecklenburgh, N. Y., Turkey Wing, Morgan, Grape Vine.

Grant Fan-Mill & Cradle Company, Melrose, N. Y., Turkey Wing, Southern, Grape
Vine, Mulay.

I. D. Spooner, Beverly, O., Denney's Patent.

Brown, Hinman & Huntington Company, Columbus, O.

J. H. Higgins, Felicity, O., White Heifer.

Samuel Ball, Cogan Station, Pa.

H. S. Walck, Greencastle, Pa., Greencastle.

E. C. Brinser, Middletown, Pa., Brinser.

Moses P. Flanders, Sharon, Vt., Flanders, Turkey Wing.

GARDEN WEEDERS.

California Garden Tool Company, Ferndale, Cal., Daisy.

CRADLE FINGERS.

Richard W. Montross, Galien, Mich.

W. D. Spear, Conewango, N. Y.

E. C. Brinser, Middletown, Pa.

GRAIN DRILLS.

P. M. Gundlach, Belleville, Ill., Gundlach's.

Sucker State Drill Company, Belleville, Ill.

Selby, Starr & Co., Peoria, Ill., Union, one and two horse Glendale press drill.

Albion Foundry & Machine Works (Baughman Bros., props.), Albion, Ind., Ideal
one horse, Ideal drill and seeder combined. See page 85.

Dublin Agricultural Company, Dublin, Ind., Tenant's Improved.

Ewald Over, Indianapolis, Ind., Victor one horse.

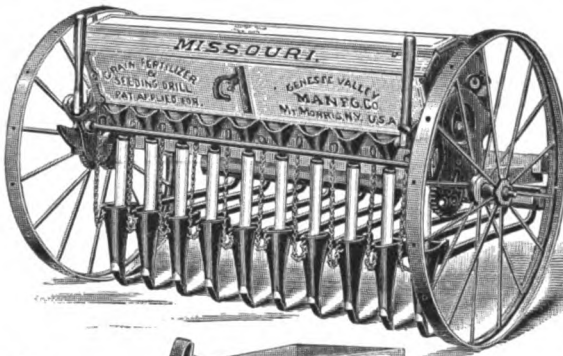
Rude Bros. Manufacturing Company, Liberty, Ind., Indiana.

J. F. Harcourt, Milroy, Ind., Young Hoosier.

Wayne Works, Richmond, Ind., Richmond Champion.

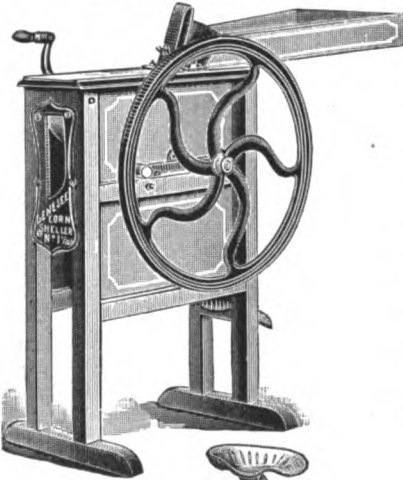
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MISSOURI DOUBLE ROTARY Force-Feed Grain and Fertilizer Drill,



WITH SELF-SHIFTING RANK
ATTACHMENT.

The lightest and best in America. Broad-faced, high, wrought iron wheels. No wood spokes or felloes. No tire coming loose. It has been thoroughly tested in sowing grain of all kinds, including corn, beans, peas, sorghum, grass seed, beet seed, phosphate, bone dust, salt, ashes, plaster, ground lime, marl and such combinations as farmers make from barn-yard and hen-house products. We build from 8 to 24 does, for 2, 3 or 4 horses, the 3-horse (19 hoes) and 4-horse (24 hoes) covering 11 and 14 feet each, used principally in Dakota. Send for circulars.

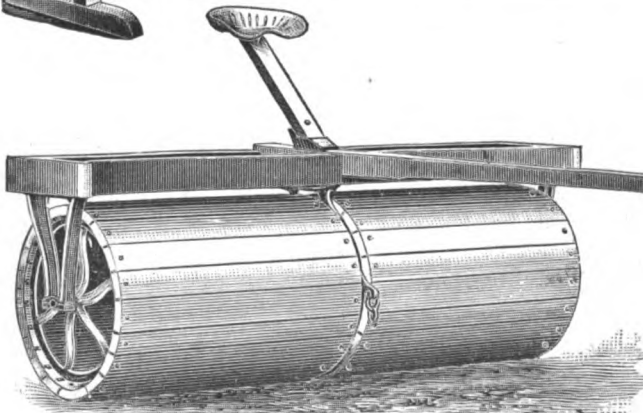


The Genesee Corn Sheller.

No. 1 Machine has single spout and worked only by hand.

No. 1½ has single spout, sieve and tray; cleans for market.

No. 2 has casters so that when tilted back one person can move it to any part of the building. Has **DOUBLE SPOUT**, with shaker and tray, and cleans for market. Worked by hand or power. Shaker in front so that the delivery of the corn and cobs are in sight of the operator.



OUR NEW LOW PRICED
LAND ROLLER
VERY POPULAR.
Made of best material. White oak staves.
Eight feet sweep. Prices to correspond
with the times.

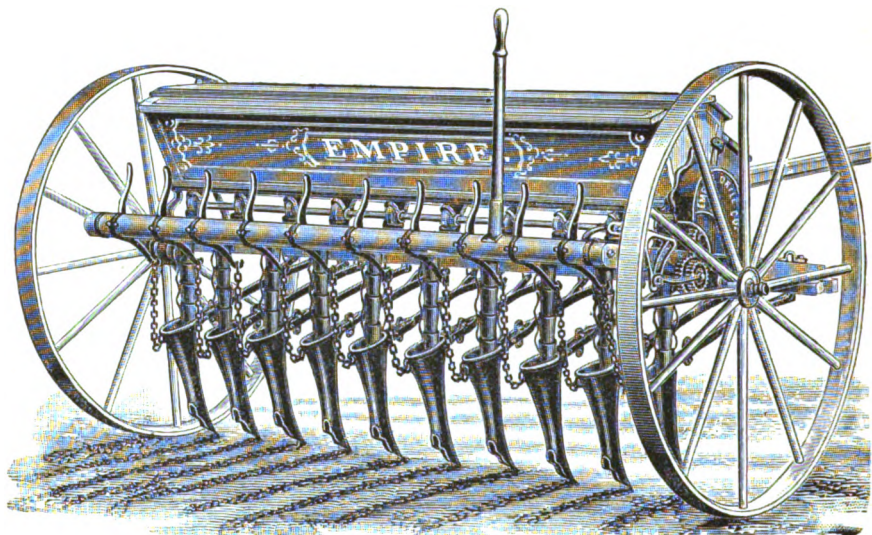
The Genesee Valley Mfg. Co., Mt. Morris, N. Y., U. S. A.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS

GRAIN DRILLS (Continued).

- Hoosier Drill Company, Richmond, Ind., Hoosier one and two horse.
 Star Drill Company, Rushville, Ind., Star three, five, six and eight hoe drills.
 Jacob Strayer & Co., South Bend, Ind.
 Brennan & Co. South Western Agricultural Works, Louisville, Ky., Kentucky.
 T. C. Clark, Russellville, Ky.
 D. F. Hull, Hagerstown, Md., Improved Empire.
 Hagerstown Steam Engine & Machine Company, Hagerstown, Md., Empire.
 Beckwith & Lee, Dowagiac, Mich.
 Dowagiac Manufacturing Company, Dowagiac, Mich., Dowagiac.
 St. Louis Drill Works, St. Louis, Mo.
 Champion Drill Company, Ltd., Avon, N. Y., Champion.
 C. W. Bradley, East Bloomfield, N. Y., Seymour, Canargua and Crown combined drill and fertilizer.
 Columbia Drill Company, Jamestown, N. Y., Columbia.
 Bickford & Huffman, Macedon, N. Y., Farmer's Favorite, Wizard fertilizer, Runner press drills.
 Genesee Valley Manufacturing Company, Mt. Morris, N. Y., Missouri grain and fertilizer drills. See page 82.
 Crown Manufacturing Company, Phelps, N. Y., Crown, plain and fertilizer.
 Empire Drill Company, Shortsville, N. Y., Empire plain and fertilizer, Empire shoe, Empire with broadcaster attachment, Empire Jr. five hoe, Junior three hoe. See page 84.
 Farmers Friend Manufacturing Company, Dayton, O., Monarch, Farmers Friend, See page 20.
 McSherry Manufacturing Company, Dayton, O., McSherry.
 Stoddard Manufacturing Company, Dayton, O., Havana press drills.
 Eagle Machine Company, Lancaster, O., Eagle three hoe.
 Hocking Valley Manufacturing Company, Lancaster, O., Hocking Valley.
 Superior Drill Company, Springfield, O., Superior plain and fertilizer drills.
 P. P. Mast & Co., Springfield, O., Buckeye, with fertilizer.
 Jno. N. Chalfant & Son, Lenover, Pa., Chalfant.
 S. S. Messinger & Son, Tatamy, Pa., Empire.
 Spangler Manufacturing Company, York, Pa., Spangler.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa., Pennsylvania.
 W. A. Maloney, Telford, Tenn., Farmer's Choice.
 J. S. Rowell Manufacturing Company, Beaver Dam, Wis., Tiger, Tiger shoe drill.
 Van Brunt & Davis Company, Horicon, Wis., Monitor shoe, hoe and press drills, combined drill, seeder and cultivator.
 Van Brunt & Wilkins Manufacturing Company, Horicon, Wis., Van Brunt hoe and shoe drills.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.



Strictly First-Class Goods.

Two Horse Drills, plain or combined. Hoe or Shoe, front or rear lift. One Horse Drills, plain or Combined. Corn Drills, plain or combined. Blade or Wheel Coverers. Plaster Sowers. Hand Fertilizer Distributors.

**Our Grain Feed is the accurate "Empire."
The Fertilizer, the famous "Marks."**

It May be Possible to Make Something Better than these, but it has Never Been Done Ye'.

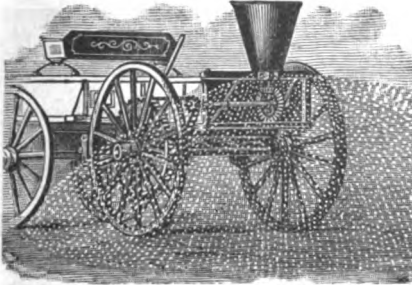
Confining ourselves to the almost exclusive manufacture of machines for sowing grain and distributing Phosphates, we are able by concentration of thought and study, to supply the best and most reliable devices in this class of tools. We solicit correspondence, assuring all of prompt and careful attention. We should like the pleasure of sending our circulars to every dealer, and will include to all who mention this book, our handsome lithograph, "His First Girl."

Empire Drill Company,

Ontario Co., Shortsville, N. Y., U.S.A.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

FOSTER'S PERFECT BROADCAST SOWER



For Broadcasting all kinds of Grain and Seeds.

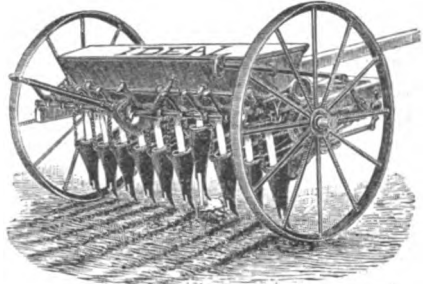
**THE BEST BROADCAST SOWER
ON THE MARKET.**

Active Agents wanted in all unoccupied territory.

For descriptive circular, prices and
terms write to

**Foster & Williams,
RACINE, WIS.**

Don't Buy a GRAIN DRILL until
you have seen the
IDEAL



One and Two-horse Grain Drills

Have Double Force Feed.
Grain can be Sown any Depth Desired.
Sows from either wheel.
Have Spring Pressure and all Latest Im-
provements.

Are the Cheapest, Simplest and Best.

Send for Circulars. Manufactured by

BAUGHMAN BROS., Albion, Ind.

GRAIN DRILLS (Continued).

Janesville Machine Company, Janesville, Wis., Leader hoe, Rival press drills. See page 44.

Wheel & Seeder Manufacturing Company, La Crosse, Wis., Davis shoe, Fountain City, Yankee press.

SEEDERS.

Benicia Agricultural Works, Benicia, Cal., Gem, Cahoon.

Parlin & Orendorff Company, Canton Ill., Canton disk harrow seeder.

Chicago Feed Mill Company, 383 Wabash avenue, Chicago, Ill., Victor.

Staver & Abbott Manufacturing Company, Chicago, Ill., Eclipse, Prairie King.

J. D. Lahman & Co., Franklin Grove, Ill., Great Western.

Joliet Stowbridge Company, Joliet, Ill., Champion, Peerless and Stowbridge broad-
cast seed sowers.

Deere & Mansur Company, Moline, Ill., Deere broadcast.

Selby, Starr & Co., Peoria, Ill., Union Jr., Cyclone, Glendale, cultivator style,
Glendale end gate style.

Poppe, Lockwood & Co., Quincy, Ill., Wells seed sower.

Emerson, Talcott & Co., Rockford, Ill., Standard. See index to ads.

Keystone Manufacturing Company, Sterling, Ill., seeder attachment with Keystone
disk harrow. See page 18.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

SEEDERS (Continued).

- Sterling Manufacturing Company, Sterling, Ill., Eureka agitator feed, Sterling force feed.
- Albion Foundry & Machine Works (Baughman Bros., props.), Albion, Ind., Ideal combined seeder and grain drill. See page 85.
- C. C. Carmien, Goshen, Ind., Champion.
- Rude Bros. Manufacturing Company, Liberty, Ind., Indiana.
- Hoosier Drill Company, Richmond, Ind., Hoosier.
- Wayne Works, Richmond, Ind., Richmond Champion.
- American Harrow Company, Detroit, Mich., New American.
- Dowagiac Manufacturing Company, Dowagiac, Mich., Warner, to work with spring tooth sulky harrow.
- D. C. & H. C. Reed & Co., Kalamazoo, Mich., Kalamazoo.
- Lawrence & Chapin Company, Kalamazoo, Mich., Steel King spring tooth harrow and seeder. See index to ads.
- L. C. Lull & Co., Kalamazoo, Mich., Boss combined harrow and seeder.
- E. Bement & Sons, Lansing, Mich., to work with spring tooth harrow.
- Wilder Manufacturing Company, Monroe, Mich.
- Carver Manufacturing Company, Carver, Minn.
- Owatonna Manufacturing Company, Owatonna, Minn., Owatonna.
- Keller Manufacturing Company, Sauk Center, Minn., Keller.
- W. M. Hurlbert, Winona, Minn.
- Whitman Agricultural Company, St. Louis, Mo., Whitman's Cyclone, Pacific, Ca-hoon, Tornado.
- Patten, Stafford & Myer, Canastota, N. Y., N. Y., Champion seeder attachment for rakes and rollers.
- St. Lawrence Manufacturing Company, Gouverneur, N. Y.
- Williams Bros., Ithaca, N. Y., Ithaca. See page 65.
- Mann Manufacturing Company, Ogdensburgh, N. Y., Mann single, also seeder and harrow combined.
- McSherry Manufacturing Company, Dayton, O., McSherry.
- Stoddard Manufacturing Company, Dayton, O., Triumph Jr., New Triumph.
- Spicer Manufacturing Company, New Philadelphia, O., Hoosier.
- Superior Drill Company, Springfield, O., Superior.
- P. P. Mast & Co., Springfield, O., Buckeye.
- Spangler Manufacturing Company, York, Pa.
- Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., Badger. See page 90.
- J. S. Rowell Manufacturing Company, Beaver Dam, Wis., Tiger.
- Van Brunt & Davis Company, Horicon, Wis., Monitor broadcast, also combined drill, seeder and cultivator.
- Van Brunt & Wilkins Manufacturing Company, Horicon, Wis., Van Brunt.
- Janesville Machine Company, Janesville, Wis., Prairie City. See page 44.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

SEEDERS (Continued).

Wheel & Seeder Manufacturing Company, La Crosse, Wis., Fountain City Jr.
 Racine Implement Company, Racine, Wis., Strowbridge, Peerless to work on wagon.

See page 70.

Foster & Williams, Racine, Wis., Foster's Perfect, to work on wagon. See page 85.
 S. Freeman & Sons Manufacturing Company, Racine, Wis., Strowbridge, Farmers
 Friend, Freeman, to work on wagon.

Racine Malleable & Wrought Iron Company, Racine, Wis., Niagara, Acme. See
 index to ads.

SEEDERS AND CULTIVATORS COMBINED.

Van Brunt & Davis Company, Horicon, Wis., Monitor combined seeder and culti-
 vator.

HAND SEEDERS.

Amos E. Shrock & Co., Goshen, Ind., perfect broadcast.

The I. X. L. Pump Company, Goshen, Ind.

Goshen Sweeper & Wringer Company, Goshen, Ind., Hoosier, Leader.

S. B. Rittenhouse, Liberty Mills, Ind., Little Giant.

South Bend Seeder Company, South Bend, Ind., South Bend.

Champion Seeder Company, Urbana, Ind., Cyclone, Chicago, U. S., Champion,
 Junior.

Goodell Company, Antrim, N. H., Cahoon, Granger.

F. Blocki, Sheboygan, Wis., hand.

GRAIN MEASURES.

Sterling Manufacturing Company, Sterling, Ill., Sterling.

M. Brown, Wapakoneta, O.

GRAIN POLISHERS AND SCOURERS.

E. H. Pease Manufacturing Company, Racine, Wis., Excelsior. See page 69.

GRASS SEEDERS.

Patten, Stafford & Myer, Canastota, N. Y., New York Champion.

Foster & Williams, Racine, Wis., Foster's perfect sower. See page 85.

Racine Implement Company, Racine, Wis. See page 70.

WHEELBARROW GRASS SEEDERS.

Homer Road Cart & Seeder Company, Homer, Mich., Michigan.

O. E. Thompson & Sons, Ypsilanti, Mich., for clover, timothy and other grass seeds.

Crown Manufacturing Company, Phelps, N. Y., Crown.

LIME SPREADERS.

Spangler Manufacturing Company, York, Pa., Spangler.

Foster & Williams, Racine, Wis., Foster's perfect sower. See page 85.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

FERTILIZER DISTRIBUTERS.

F. C. Vibert, Hockanum, Conn.
Deere & Mansur Company, Moline, Ill., Deere.
A. McKenney, Middleboro, Mass., Acme.
Eclipse Corn Planter Company, Enfield, N. H., Eclipse corn planter and fertilizer distributor combined.
C. W. Bradley, East Bloomfield, N. Y., Seymour plaster sowers.
Patten, Stafford & Meyer, Canastota, N. Y., New York Champion.
Empire Drill Company, Shortsville, N. Y., Garden Empire. See page 84.
Spangler Manufacturing Company, York, Pa., Spangler.
Sullivan Manufacturing Company, Anderson, S. C., West.
Longview-Kelly Plow Company, Longview, Tex., Philpot's.
C. Billups, Son & Co., Norfolk, Va., McWhorter's hand.
Foster & Williams, Racine, Wis., Foster's perfect broadcast sower. See page 85.

PLASTER SOWERS.

Jacob Strayer & Co., South Bend, Ind.
C. W. Bradley & Co., East Bloomfield, N. Y., Seymour Improved.
Empire Drill Company, Shortsville, N. Y., Empire. See page 84.
Manitowoc Manufacturing Company, Manitowoc, Wis.
Foster & Williams, Racine, Wis. See page 85.

GRAIN REGISTERS.

C. L. Nesmith, Washington, Ill., The Nesmith. See index to ads.
D. Kreps, Goshen, Ind., American.
R. R. Howell & Co., Minneapolis, Minn.
Minnesota Thresher Manufacturing Company, Stillwater, Minn., Stanton.
The O. S. Kelly Company, Springfield, O. See page 93.

GRASS HOOKS.

Beardsley Scythe Company, West Winsted, Conn.
Dunn Edge Tool Company, Oakland, Me.
Hubbard & Blake Manufacturing Company, Oakland, Me.
G. & M. Nolin, Skowhegan, Me., Nolin.
Auburn Manufacturing Company, Auburn, N. Y.
David Wadsworth & Son, Auburn, N. Y.
H. Knickerbocker, Ballston, N. Y.

GRAIN WEIGHERS AND LOADERS.

Peasley & Co., Bloomington, Ill., Square Deal.
Borden, Selleck & Co., Chicago, Ill.
Warren & Durfee Manufacturing Company, Decatur, Ill., Monarch, Monarch Jr. and Boss.
Tryon Bros. Manufacturing Company, Marseilles, Ill., Tryon.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

GRAIN WEIGHERS AND LOADERS (Continued).

Hayes Pump and Planter Company, Galva, Ill., Buchanan.
 Hart Weigher Company, Peoria, Ill., Telescope.
 Selby, Starr & Co., Peoria, Ill., Perfection, Perfection Jr.
 Daniel Wilde, Washington, Ia., Washington weigher, loader and bagger.
 The O. S. Kelly Company, Springfield, O. See page 98.

GRINDING MILLS.

Benicia Agricultural Works, Benicia, Cal., California.
 Leonard & Silliman, Bridgeport, Conn.
 Edw. Harrison Mill Company, New Haven, Conn., Standard, Perfection, Hercules, also hand corn mills.
 De Loach Mill Manufacturing Company, Atlanta, Ga., De Loach.
 R. D. Cole Manufacturing Company, Newnan, Ga.
 U. S. Wind Engine & Pump Company, Batavia, Ill., I. X. L. See index to ads.
 Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Ft. Worth, Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.
 Challenge Wind Mill & Feed Mill Company, Batavia, Ill., Challenge.
 Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., American, Tornado, Hero combined mill and power, corn, cob and shuck mills, sweep power mills. See page 90.
 F. C. Austin Manufacturing Company, corner Carpenter street and Carroll avenue, Chicago, Ill., Austin Clipper.
 Charles Kaestner & Co., 311 S. Canal street, Chicago, Ill., Kaestner.
 Chicago Feed Mill Company, 383 Wabash avenue, Chicago, Ill., Victor.
 Staver & Abbott Manufacturing Company, Chicago, Ill., Buckeye, Big S., Champion.
 Elgin Wind Power & Pump Company, Elgin, Ill., Centennial.
 Lamb & Company, Freeport, Ill., Daisy metal buhr, Union French buhr, Durham, Devore wind mill grinder, No. 2 corn and cob sweep mill. See page 92.
 Stover Manufacturing Company, Freeport, Ill., Ideal sweep power mill, Stover triple gear, Ideal Duplex power mill.
 G. D. Colton & Co., Galesburgh, Ill., Champion.
 Marseilles Manufacturing Company, Marseilles, Ill., Universal, Success, Adams belt and geared. See page 36.
 Voth & Duisdieker, Pekin, Ill., Farmer's Friend.
 Kirkwood, Miller & Co., Peoria, Ill., K. M. & Co., Monarch and Favorite.
 Goodhue Wind Engine Company, St. Charles, Ill., Goodhue.
 Sandwich Enterprise Company, Sandwich, Ill., Enterprise feed grinders. See index to ads.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

APPLETON M'FG. CO.
MANUFACTURERS OF THE LARGEST AND FINEST LINE
MONEY-SAVING FARM MACHINERY.

1-2-4-6-8 HORSE
 APPLETON & HERD.
 SWEEP POWERS.

26 SIZES AMERICAN GRINDING MILLS.
 HERD MILLS
 WARRANTED
 THE BEST
 FEED MILLS
 MADE

COMMON SENSE WOOD SAWS
 MORE SOLD
 THAN ANY
 OTHER

2-3 HORSE "CHIEF"
 1-2-3 LEVEL TREAD POWERS
 GUARANTEED MORE POWER AT LOWER ELEVATION
 THAN ANY OTHER

HERD SELF FEED CORN SHELLERS.
 ONE HOLE
 BADGER
 CORN
 SHELLERS
 TWO HOLE
 BADGER
 CORN
 SHELLERS

OUR COMMON TREAD POWERS
 SOLD AT LOW PRICES

OUR HERD
 POWER
 AND MILL
 THE BEST
 OUTFIT
 MADE

HERD
 ENSILAGE & FODDER CUTTERS
 WARRANTED THE STRONGEST & LIGHTEST
 RUNNING CUTTER MADE

ALL KINDS OF
 SPEED JACKS

ENSILAGE MACHINERY.
 PECK'S HUSKING & SHELLING ATTACHMENTS.
 24,000 OF OUR MILLS, NOW IN USE, ALL GOODS WARRANTED AND SENT ON TRIAL.
 IT WILL PAY YOU TO SEND FOR HANDSOME 112 PAGE ILLUSTRATED CATALOGUE OF SPECIAL PRICES OF THESE CELEBRATED GOODS.

APPLETON MANUFACTURING CO. 19-21 So CANAL ST. (CHICAGO ILL.)
 T. E. CALKINS & CO. CHICAGO.

GRINDING MILLS (Continued).

Sandwich Manufacturing Company, Sandwich, Ill., X. X., O. K.

Clark & Co., Somonauk, Ill., Stevens.

E. B. Winger, South Chicago, Ill.

Sterling Manufacturing Company, Sterling, Ill., Famous, Western corn and cob mill.

Monitor Manufacturing Company, Auburn, Ind.

Nordyke & Marmon Company, Indianapolis, Ind., Nordyke's portable mills, French buhr mills, Dixie corn mills, Straub grist mills, Bradford corn mills, hominy mills, Nordyke's roller mills, Nordyke wheat mills, feed mills, rye mills. See page 92.

St. Joseph Manufacturing Company, Mishawaka, Ind, Mishawaka.

Richmond City Mill Works, Richmond, Ind., Planter's Pride, Pride of Richmond, buhr stone feed mills. See page 92.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

GRINDING MILLS (Continued).

- N. P. Bowsher, South Bend, Ind., Bowsher's Combination, with or without elevator attachment.
- Carpenter & Genung, Independence, Ia., Little Victor.
- Ames Plow Company, Boston, Mass., and New York, N. Y., hand corn and coffee mills, Nichols corn and cob mills.
- Cutler & Co., North Wilbraham, Mass.
- Union Wind Mill & Manufacturing Company, Albion, Mich., Union.
- Smith & Pomeroy, Kalamazoo, Mich., Eureka.
- R. R. Howell & Co., Minneapolis, Minn., roller feed mills.
- Kinnard Press Company, Minneapolis, Minn., Flour City. See index to ads.
- Diamond Feed Mill Manufacturing Company, Owatonna, Minn., Diamond feed mills.
- Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Undulatory.
- Whitman Agricultural Company, St. Louis, Mo., Young America and Monarch corn and cob mills, Magic feed mills.
- J. A. Field & Co., St. Louis, Mo., Big Giant, Little Giant, New Giant, Turn Table Power, Mound City combined.
- Geo. K. Oyler & Co., St. Louis, Mo., Excelsior, Peerless, Big Giant.
- A. W. Stevens & Son, Auburn, N. Y., French buhr stone, corn and feed mills.
- John T. Noye Manufacturing Company, Buffalo, N. Y., Plantation, also roller feed mills.
- Groton Bridge & Manufacturing Company, Groton, N. Y., French buhr.
- Carr & Company, 69 Wall street, New York, N. Y., hand and power.
- Newell Universal Mill Company, 10 Barclay street, New York, N. Y., Newell Universal.
- A. B. Cohu Company, 197 Water street, New York, N. Y., A. B. C. hand and power corn mills.
- H. N. Hubbard, 96 Chambers street, New York, N. Y., Hubbard's corn mills.
- John Moore's Son, 193 Front street, New York, N. Y., corn and hominy.
- Munson Bros., Utica, N. Y.
- J. H. McLain Machine Company, Canton, O., Victor, Buckeye.
- Bradford Mill Company, Cincinnati, O.
- Jas. L. Haven & Co., Cincinnati, O.
- L. J. Miller, Cincinnati, O., Nonpareil, bone, corn and cob, grinding and crushing.
- Straub Machinery Company, Cincinnati, O., Queen of the South, Gem of the South.
- Forest City Machine Works, Cleveland, O., Champion.
- Enterprise Manufacturing Company, Columbiana, O., Young America feed mills, Enterprise feed grinders.
- American Foundry & Machine Company, Bowling Green, O., Champion.
- Hocking Valley Manufacturing Company, Lancaster, O., Hocking Valley.
- Star Manufacturing Company, New Lexington, O., Star, Farmer's Choice, Star mill and power combined.

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Roller and all styles of Mills. Founders' and Machinists' Engines, Boilers and Water Wheels, Pulleys and Shaftings.

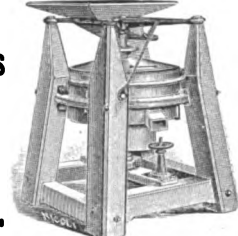
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Send
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Book
and how
to Grind.



28 sizes
and styles
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portable
French
Burr Mills.



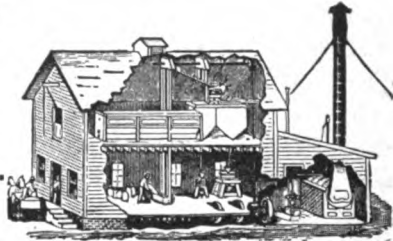
Complete Mill and Sheller, \$100. A boy can keep it in order and in operation. Adapted to any kind of power. **RECEIVED HIGHEST AWARDS** at the St. Louis, Cincinnati, Indianapolis, and New Orleans Fairs and Expositions. **OVER 20,000 IN USE.**

WE KEEP OUR MILLS IN STOCK. Also new and
Second hand Bradford, Straub and other mills.

Complete Flour Mills on Roller Process.

**Corn Meal, Hominy, Grits,
Pearl Meal, Starch and Rice.**

Send for book on Milling and Plans of Mills.



NORDYKE & MARMON CO., No. 511 KENTUCKY AVE., **Indianapolis, Ind.**



Sole Manufact-
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"ZENITH"
And Original Improved
"STOVER" Wind Mills

For Pumping and Power Purposes.

All sizes. Also "Lamb's" Long Stroke
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Iron Pumps, Tanks, Water Supplies, etc.

"Lamb's" Adjustable

ANIMAL POWER.

This Power can be at-
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of Churn.

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**"DAISY" GRINDING
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Suited for steam engines,
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wind mills. We also
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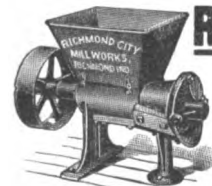
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New principles never
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at center, in combination
with French Burr Stones.

Successors to
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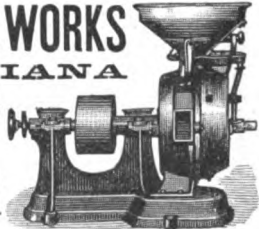
FREEPORT, ILL.. U. S. A.



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RICHMOND, INDIANA

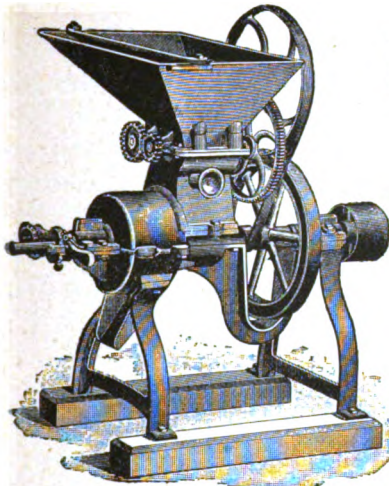
**CORN & COB CRUSHERS,
FRENCH BURR MILLS,
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**EVERY MILL GUARANTEED.
SEND FOR DESCRIPTION AND PRICES.**

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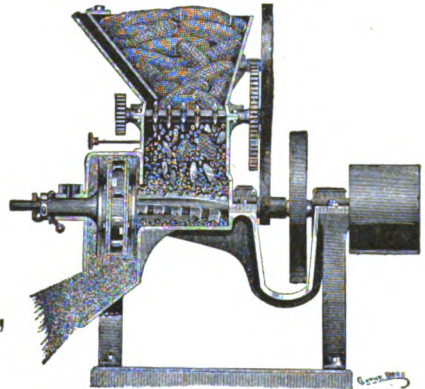
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Manufactured by

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Springfield, O.



Also manufacturers of
Traction and Portable Engines,
Threshing Machines,
Kelly Self-swinging Stackers,
Horse Powers, Grain Measurers, etc.

Write for catalogue and discounts.

GRINDING MILLS (Continued).

Victory Feed Mill Company, Springfield, O., Victory.

Common Sense Engine Company, Springfield, O., Common Sense.

Springfield Implement Company, Springfield, O., Quaker City.

Foos Manufacturing Company, Springfield, O., Scientific, also bone mills.

The O. S. Kelly Company, Springfield, O., Kelly Duplex. See ad. above.

The E. W. Ross Company, Springfield, O., Little Giant. See page 74.

Springfield Machine Company, Springfield, O., Leffel's feed mills.

Wilson Bros., Easton, Pa., hand and power mills, bone grinders.

Heebner & Sons, Lansdale, Pa., Heebner's.

Waldron & Sprout, Muncy, Pa., vertical French burr mills.

Logan & Strobridge Iron Company, New Brighton, Pa., Monarch hand and power mills, Plantation hand mills.

J. E. Armour, 1116 W. Susquehanna avenue, Philadelphia, Pa., Keystone.

C. C. Phillips, 20 S. Broad street, Philadelphia, Pa., French burr mills, cob crushers, bone mills.

A. W. Straub & Co., Philadelphia, Pa., Quaker City. See index to ads.

W. L. Boyer & Bro., Germantown avenue and Diamond street, Philadelphia, Pa., Premium farm grist mills.

Enterprise Hardware Company, Ltd., Pittsburgh, Pa., Standard, Keystone, Family.

Ajax Manufacturing Company, Pittsburgh, Pa., Standard. See page 48.

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GRINDING MILLS (Continued).

Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa.
 Lewis Strayer, York, Pa., Strayer.
 Livermore Foundry & Machine Company, Memphis, Tenn.
 R. K. Chatham & Co., Bryan, Tex., Texas corn mills, Chatham.
 Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., American,
 Tornado, Hero. See page 90.
 Valley Iron Works Manufacturing Company, Appleton, Wis., Iron King, North
 Western pulp grinders.
 Eclipse Wind Engine Company, Beloit, Wis.
 Duplex Wind Mill Company, Brooklyn, Wis., Duplex feed grinders.
 Baker Manufacturing Company, Evansville, Wis., Monitor.
 Smalley Manufacturing Company, Manitowoc, Wis., Smalley.
 D. T. H. MacKinnon, Menasha, Wis., Menasha.
 F. Blocki, Sheboygan, Wis., F. B.
 Kohler, Hayssen & Stehn Manufacturing Company, Sheboygan, Wis., Champion.
 Meyer & Schrage, Sheboygan, Wis.
 B. H. & J. Sanford, Sheboygan Falls, Wis., Phoenix.
 The Althouse-Wheeler Company, Waupun, Wis., Waupun. See index to ads.
 Silberzahn Manufacturing Company, West Bend, Wis., Pioneer.
 Winchester & Partridge Manufacturing Company, Whitewater, Wis., Osage,
 Dandy.

COB CRUSHERS AND GRINDERS.

Nordyke & Marmon Company, Indianapolis, Ind. See page 92.
 Richmond City Mill Works, Richmond, Ind., Richmond. See page 92.
 Kingsland & Douglas Manufacturing Company, St. Louis, Mo.
 Jno. T. Noye Manufacturing Company, Buffalo, N. Y.
 Carr & Company, 69 Wall street, New York, N. Y.
 Munson Bros., Utica, N. Y.
 Foos Manufacturing Company, Springfield, O., Scientific.

POTATO HOES.

E. S. & F. Bateman, Grenloch, N. J.

POTATO HOOKS.

Iowa Farming Tool Company, Ft. Madison, Ia.
 Withington & Cooley Manufacturing Company, Jackson, Mich.
 Auburn Manufacturing Company, Auburn, N. Y.
 Gibbs Manufacturiug Company, Canton, O., Gibbs two and three tine.
 Ely Hoe & Fork Company, St. Johnsbury, Vt.

LIFTING JACKS.

Fairbanks, Morse & Co., Chicago, Ill. See index to ads.
 Reeves & Co., Columbus, Ind.

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LIFTING JACKS (Continued).

Dublin Agricultural Company, Dublin, Ind., Little Giant.
 Hagerstown Iron Works, Hagerstown, Md., I. X. L.
 Hercules Lever Jack Company, Irvington, N. J.
 Jas. L. Haven Company, Cincinnati, O.
 McSherry Manufacturing Company, Dayton, O., Maxon patent.
 D. H. Bausman, Bausman, Pa., Ladies' Helper.

POWER JACKS.

Challenge Wind Mill & Feed Mill Company, Batavia, Ill.
 U. S. Wind Engine & Pump Company, Batavia, Ill. See index to ads.
 Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver
 & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machin-
 ery & Implement Company, Ft. Worth, Tex., Geo. G. Creamer, 80 S. Market
 street, Boston, Mass.
 G. D. Colton & Co., Galesburgh, Ill.
 Joliet Manufacturing Company, Joliet, Ill., single and double jacks.
 Sandwich Manufacturing Company, Sandwich, Ill.
 Novelty Iron Works, Dubuque, Ia. See index to ads.
 Minnesota Thresher Manufacturing Company, Stillwater, Minn.
 Hercules Lever Jack Company, Irvington, N. J., Hercules lever.
 W. R. Harrison & Co., Canton, O.
 Aaron Wissler, Brunnerville, Pa., Universal. See index to ads.
 Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., band wheel,
 bevel, spur gear. See page 90.
 Foster & Williams, Racine, Wis. See page 85.
 S. Freeman & Sons Manufacturing Company, Racine, Wis., Bevel Spur, Belt and
 Swivel.
 Meyer & Schrage, Sheboygan, Wis.

WAGON JACKS.

Chas. G. Allen & Co., Barre, Mass., Eureka.
 Ames Plow Company, Boston, Mass., and New York, N. Y., Little Giant.
 Jos. Davis & Son, Flushing, Mich.
 Thos. Peppler, Hightstown, N. J., Climax lever.
 E. Covert Manufacturing Company, Farmer Village, N. Y., Victor and Daisy.
 Empire Washer Company, Jamestown, N. Y., Little Giant.
 H. B. Griffing, 70 Cortlandt street, New York, N. Y., Leader.
 H. N. Hubbard, 96 Chambers street, New York, N. Y., Our.
 Joseph Allen, Jr., Palmyra, N. Y.
 Hughes & Smythe, Galena, O., Little Giant.
 Sutton Bros. & Bell, Indiana, Pa.
 A. Blaker & Co., Newtown, Pa.
 Foster & Williams, Racine, Wis. See page 85.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

HAND CARTS.

Schuttler & Hotz, Chicago, Ill.
Borden, Selleck & Co., Chicago, Ill.
David Bradley Manufacturing Company, Chicago, Ill., Handy.
Daley Manufacturing Company, De Kalb, Ill.
Sandwich Manufacturing Company, Sandwich, Ill., General Utility.
Sandwich Enterprise Company, Sandwich, Ill., Handy farm and shop. See index to ads.
Abram Ellwood, Sycamore, Ill., Ellwood.
E. W. Walker & Co., Goshen, Ind.
Ames Plow Company, Boston, Mass., and New York, N. Y.
Winona Wagon Company, Winona, Minn.
Lansing Wheelbarrow Company, Lansing, Mich.
E. S. & F. Bateman, Grenloch, N. J.
John W. Douglass, 57 Beekman street, New York, N. Y.
Hobson & Co., 4 Stone street, New York, N. Y.
Oneida Manufacturing Company, Oneida, N. Y., Novelty, Oneida.
Kilbourne & Jacobs Manufacturing Company, Columbus, O., with and without springs.
Hauck & Comstock, Mechanicsburgh, Pa. See page 42.
Belle City Manufacturing Company, Racine, Wis., Belle City. See page 72.

HAND AGRICULTURAL IMPLEMENTS.

E. A. Rogers, New Hartford, Conn.
Beardsley Scythe Company, West Winsted, Conn.
Winsted Manufacturing Company, Winsted, Conn.
J. A. Everitt Seed Company, Indianapolis, Ind.
Iowa Farming Tool Company, Fort Madison, Ia., forks, hoes, rakes.
Richard W. Montross, Galien, Mich., forks, hoes, rakes, shovels, spades, scoops, etc
E. S. & F. Bateman, Grenloch, N. J.
Auburn Manufacturing Company, Auburn, N. Y.
L. Bolles Hoe & Tool Company, Binghamton, N. Y.
Alex. Van Valkenburg, Halcott Centre, N. Y.
A. M. Ross & Co., Ilion, N. Y.
Isaac A. Duvall, Napanoch, N. Y.
Huntley & Babcock Agricultural Company, Ltd., Utica, N. Y.
Ashtabula Tool Company, Ashtabula, O., Diamond brand.
Canton Hoe and Tool Company, Canton, O.
Brown, Hinman & Huntington Company, Columbus, O.
Sandusky Tool Company, Sandusky, O.
Otsego Fork Mills Company, Girard, Pa.
Smith Harper, Fox Chase, Philadelphia, Pa.
Josa A. Hood, 75 Laurel street, Philadelphia, Pa.

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HAND AGRICULTURAL IMPLEMENTS (Continued).

Carter & Co., Scranton, Pa.
 Stafford & Holden Manufacturing Company, Barre, Vt.
 Peck, Clark & Co., Brookfield, Vt.
 French, Watson & Co., Hartford, Vt., Imperial.
 Ely Hoe & Fork Company, St. Johnsbury, Vt.

HANDLES FOR IMPLEMENTS.

G. B. Griffith & Son, Huntington, Ind.
 Holloway & Turner, Lebanon, Ind.
 S. E. Howe, Logansport, Ind.
 G. B. Lesh Manufacturing Company, Warsaw, Ind., plow handles and beams.
 Iowa Farming Tool Company, Ft. Madison, Ia.
 Rugg Manufacturing Company, Montague, Mass.
 Richard W. Montross, Galien, Mich.
 Withington & Cooley Manufacturing Company, Jackson, Mich.
 Burton Handle Company, Burton, O.
 Piqua Handle & Manufacturing Company, Piqua, O.
 Carter & Co., Scranton, Pa.
 Look & Lincoln, Marion, Va., plow handles.
 Hugh F. Lyle & Co., Vesuvius, Va.

HARNESS.

Staver & Abbott Manufacturing Company, Chicago, Ill.
 Kirkwood, Miller & Co., Peoria, Ill.
 L. Burg Manufacturing Company, Farmington, Ia.
 R. M. Bingham & Co., Rome, N. Y.
 Sherwood Harness Company, Syracuse, N. Y., Sherwood steel harness.
 De Wane B. Smith & Co., Utica, N. Y., Deerfield.
 A. Wrenn & Sons, Norfolk, Va.

HARROWS AND PULVERIZERS.

Benicia Agricultural Works, Benicia, Cal., Benicia pulverizers and steel harrows.
 California Garden Tool Company, Ferndale, Cal., New Idea Spring tooth harrows.
 Matteson & Williamson Manufacturing Company, Stockton, Cal., channel iron,
 Richard's disk harrows.
 O. W. Goslee, Buckingham, Conn., smoothing harrows.
 Higganum Manufacturing Corporation, Higganum, Conn., Clark flexible disk, Clark
 cutaway disk.
 Lee Bros., Watertown, S. Dak., Watertown.
 C. K. Klinkenberg, Wolsey, S. Dak.
 W. T. Stapler, Harmony Grove, Ga.
 Towers & Sullivan Manufacturing Company, Rome, Ga., Pennington and Wood.
 Hapgood Plow Company, Alton, Ill., wood, steel reversible, steel lever and disk.
 See index to ads.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

THE IMPROVED Pat. Tiger Protection Spring Tooth Harrow.

**Steel Frame, Never Wears Out,
Never Bends or Breaks,
Every Harrow a Guarded Harrow.**

Also Manufacturers of

**SPRING TOOTH
Wheel Harrows & Seeders.**



Licensed by the National Harrow Company, who own large numbers of Spring Tooth Harrow Patents, and protect all Dealers and Users. No other maker can make these Harrows.

More than 40,000 of these frames already in use. Frames made of same material as teeth. Every Tooth Holder of tempered Steel, and forming a shoe, which keeps the frame up from the ground, thereby saving one horse in draft, in most soils. Sold as low as inferior harrows. Wood frame harrows made with same teeth and holders. Send for circulars and prices.

Good dealers wanted to represent our goods in every town in the U. S.

THE LAWRENCE & CHAPIN CO.,
Sole Makers, Kalamazoo, Mich.

HARROWS AND PULVERIZERS (Continued).

L. M. Burch, Baylis, Ill.

Odum Bros., Benton, Ill. (Local Trade.)

Walton Plow Company, Bloomington, Ill., Walton wood and steel lever harrows.

Parlin & Orendorff Company, Canton, Ill., Canton lever, vibrating, Scotch, Clipper, also Canton and Canton Rose disk harrows.

David Bradley Manufacturing Company, Chicago, Ill., Scotch, Eclipse, lever, listing, Friedeman, Bradley steel reversible, zigzag.

Daley Manufacturing Company, De Kalb, Ill., Daley disk, Daley lever, Daley wood and steel frame, Hustler lever harrow.

Grand Detour Plow Company, Dixon, Ill., common reversible, lever disk.

George W. Brown & Co., Galesburgh, Ill., Knox, Knox lever.

Deere & Mansur Company, Moline, Ill., Deere disk.

Deere & Co., Moline, Ill. See index to ads.

Branch houses—John Deere Plow Company, Kansas City, Mo., Deere, Wells & Co., Council Bluffs, Ia., Deere & Co., Minneapolis, Minn., Deere Implement Company, San Francisco, Cal., H. H. Sickels & Co., Des Moines, Ia., The Spencer & Lehman Company, Decatur, Ill.

Moline Plow Company, Moline, Ill., Steel pipe lever, triple, folding, Scotch, vibrating, Dakota. See index to ads.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb. and Des Moines, Ia.

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HARROWS AND PULVERIZERS (Continued).

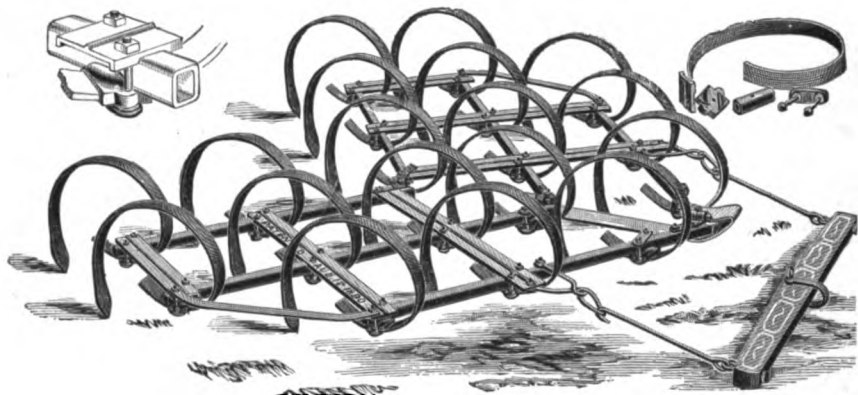
- Weir Plow Company, Monmouth, Ill., wood and steel, reversible and lever, Scotch and frictional.
- Pekin Plow Company, Pekin, Ill., full line.
- R. C. Buckley, Peoria, Ill., Buckley.
- Millikin, Cisle & Company, Peoria, Ill., vibrating and smoothing.
- Selby, Starr & Company, Peoria, Ill., Glendale.
- Peru Plow & Wheel Company, Peru, Ill., steel and wood lever, Scotch, vibrating.
- E. C. Eaton, Pinckneyville, Ill., Eaton's iron and steel harrows.
- H. B. Busing & Co., Rockford, Ill., wood and iron lever.
- Peter Sames, Rockford, Ill.
- Skandia Plow Company, Rockford, Ill., Skandia iron lever, wood lever, center draft and Scotch.
- Rock Island Plow Company, Rock Island, Ill., all kinds steel and wood; disk, all sizes with seeder attachment.
- W. B. Sturgis, Shelbyville, Ill., Sturgis.
- F. R. Crothers, Sparta, Ill.
- Sattley Manufacturing Company, Springfield, Ill., steel. See index to ads.
- A. B. Spies, Sterling, Ill.
- Sterling Manufacturing Company, Sterling, Ill., Sterling, Champion, Common Sense, lever, reversbile and vibrating
- Keystone Manufacturing Company, Sterling, Ill., Keystone force feed disk harrow with seeder attachment, Keystone reversible, Keystone double lever disk. See page 18.
- Abram Ellwood, Sycamore, Ill.
- Oldendorph Bros., Waterloo, Ill.
- Farmers Manufacturing & Supply Company, Indianapolis, Ind., Iron Duke, Three Fives spring tooth harrows.
- Wm. Clore's Sons, Rising Sun, Ind.
- Huggins & Griffith, Anamosa, Ind.
- A. Wilcox Company, Cedar Rapids, Ia., Wilcox.
- Eagle Manufacturing Company, Davenport, Ia., Eagle.
- Norwegian Plow Company, Dubuque, Ia., plain iron and lever. See index to ads.
- Morrison Manufacturing Company, Fort Madison, Ia., Scotch, smoothing.
- Kalona Harrow & Fence Machine Company, Kalona, Ia., Kalona slant tooth and steel lever.
- Empire Manufacturing Company, Keokuk, Ia., Empire disk.
- H. P. Kynett, Lisbon, Ia.
- Fair, Williams & Co., Ottumwa, Ia., Victor reversible steel and vibrating.
- Sioux City Plow Company, Sioux City, Ia., reversible steel, new style.
- Carstensen Bros. & Co., Walnut, Ia.
- J. S. Johnson, Waukon, Ia., lever.
- A. B. Clippinger & Bro., Centralia, Kan., Perfect lister, lever, Scotch.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

Steel Frame Spring Tooth Harrows!

Thousands Sold in 1890, and not a Single Frame Bent or Broken.

Square tube bed pieces. Ribbed channel steel cross pieces. All steel and iron. Newest and most perfect steel frame, spring tooth harrow made. Secure the agency for a good thing. Teeth made from very best spring steel and tempered in oil. Bolt heads fully protected by hardened steel clip.



A Steel Shoe—Three Inches Wide,

Which keeps Nose or Front End of Harrow out of the Ground, Cannot catch on Stones, Stumps, or other Obstructions. This is a valuable improvement, and with other special and distinctive features accounts for the Great Success and General Satisfaction given this past season. Also Standard Wood Frame Spring Tooth Harrows sold extensively for the last six years. Best in the market. Write for prices, terms, etc.

CHASE TAYLOR CO., Manufacturers, - Kalamazoo, Mich.

HARROWS AND PULVERIZERS (Continued).

B. F. Avery & Sons, Louisville, Ky., Avery.

Brinly, Miles & Hardy Company, Louisville, Ky., Brinly Universal, vibrating smoothing.

Thos. Meikle & Co., Louisville, Ky., Scotch.

T. C. Clark, Russellville, Ky.

Whitman Agricultural Works, Auburn, Me.

Timothy B. Hussey, North Berwick, Me., Hussey steel coulter.

Silas Goddard & Son, South Durham, Me.

Evan Davis & Son, Butler Md., Davis.

Ames Plow Company, Boston, Mass., and New York, N. Y., A, Geddes, share.

Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., Yankee disk, Clipper smoothing, Fillebrown, La Dow disk, Yankee pulverizer.

F. C. Merrill, South Paris, Me., O. K. steel coulter.

Gale Manufacturing Company, Albion, Mich., disk harrows.

H. A. Currier, Almont, Mich., Improved Scotch.

Smalley Bros. & Co., Bay City, Mich., Eagle sulky.

George Fair, Blaine, Mich.

Hermann Rohns, Detroit, Mich., Vaughn flexible.

American Harrow Company, Detroit, Mich., Gale spring tooth sulky harrow, with or without seeder.

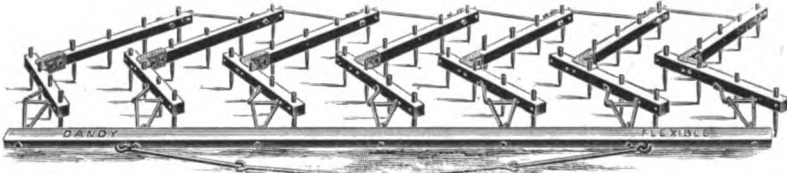
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HARROWS AND PULVERIZERS (Continued).

- Dowagiac Manufacturing Company, Dowagiac, Mich., Warner spring tooth sulky harrow and seeder.
- Robert Sleeth, Fargo, Mich.
- The Castree-Mallery Company, Flint, Mich., Star, Scotch.
- P. H. Wilms, Holland, Mich., Champion spring tooth, Eagle, Diamond.
- G. W. Arnold & Son, Ionia, Mich.
- H. B. Wells, Ithaca, Mich.
- Lawrence & Chapin Company, Kalamazoo, Mich., Tiger Protection spring tooth, wood and steel frame; also Steel King spring tooth wheel harrow and seeder. See page 98.
- L. C. Lull & Co., Kalamazoo, Mich., Monarch steel frame, Advance wood frame, spring tooth floating and sulky harrows.
- Chase-Taylor Company, Kalamazoo, Mich., Standard wood frame, King of All steel frame spring tooth. See page 100.
- D. C. & H. C. Reed & Co., Kalamazoo, Mich., Kalamazoo spring tooth; also sulky harrows.
- E. Bement & Sons, Lansing, Mich., Reliance, Lansing, Clipper.
- A. C. Bruce, Lapeer, Mich., Scotch.
- Milan Agricultural Company, Milan, Mich., Scotch.
- Wilder Manufacturing Company, Monroe, Mich., floating, riding, spring tooth, iron or wood axle.
- Donaldson Bros., Mt. Clemens, Mich.
- D. O. Everest & Co., Pine Grove Mills, Mich., Reed spring tooth.
- Mitts & Merrill, Saginaw, Mich.
- Whipple Harrow Company, St. Johns, Mich., Whipple.
- J. J. Morse, Weston, Mich., Dugaw.
- Johnson & Smith, Austin, Minn.
- Carver Manufacturing Company, Carver, Minn., Scotch and Gopher.
- Neal, Johns & Co., Lake City, Minn.
- Clayton Plow Works Company, Minneapolis, Minn.
- Eggen Bros., Rushford, Minn.
- St. Paul Plow Works, St. Paul, Minn., Norway, Boss, Boss steel and wood lever harrows, Des Moines reversible.
- Keller Manufacturing Company, Sauk Center, Minn., Scotch.
- Winona Plow Company, Winona, Minn., reversible.
- A. H. Kirkland, Jackson, Miss.
- Columbia Wagon Company, Columbia, Mo.
- Lang & Bro., Farmington, Mo.
- H. M. Godfrey, Jonesburgh, Mo.
- Kansas City Rotary Harrow Manufacturing Company, Kansas City, Mo.
- St. Joseph Plow Company, St. Joseph, Mo., Scotch and adjustable steel.
- J. H. Barley, Bro. & Co., Sedalia, Mo., Barley's.

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NO COMPETITION. DANDY FLEXIBLE HARROW.

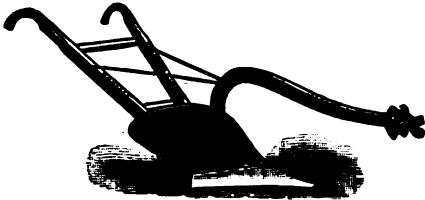


PATENTED. NOTHING LIKE IT.

Each Tooth Bar is entirely independent of the rest, and is perfectly free to adapt itself to the unevenness of the ground. **Steel Teeth, set on a slant. Made in 3 sizes.**

WE MANUFACTURE

Genuine Norwegian Plows, Prairie Breakers, Grub Breakers, Ole Oleson Sulkies, Ole Oleson Gangs, Uncle Sam Gangs, Riding Cultivators, Walking Cultivators, Combined Cultivators, Tongueless Cultivators, Corn Planters, Check Rowers, Standard Harrows, Wood Lever Harrows, Steel Lever Harrows, Dandy Flexible Harrows, Mowers, Hollingsworth Rakes, Listers, Disc Harrows.



J. Thompson & Sons, Lim.
BELOIT, WIS.

HARROWS AND PULVERIZERS (Continued).

E. Schroeder, Wellington, Mo.

Western Manufacturing Company, Lincoln, Neb., Capital flexible, Advance.

Geo. F. Kregel, Nebraska City, Neb.

I. E. Phelps, Wahoo, Neb.

C. M. Lufkin, Alstead, N. H., disk leveling, New Lufkin.

Wm. P. Ford & Co., Concord, N. H., Ford's, Bucklin's.

Thomas Peppler, Hightstown, N. J., Climax iron frame adjustable, Climax steel.

Duane H. Nash, Millington, N. J., Acme pulverizing harrow, clod crusher and leveler.

W. W. Packer & Son, Saddle River, N. J.

E. S. & F. Bateman, Grenloch, N. J., Iron Age, Jackson flexible.

Risedorph Agricultural Works, Albany, N. Y., disk, spring tooth.

A. W. Stevens & Son, Auburn, N. Y., Stevens all steel arched frame spring tooth.

Johnston Harvester Company, Batavia, N. Y., Continental and Globe disk harrows and pulverizers.

D. S. Morgan & Co., Brockport, N. Y., Triumph spading.

Pitts Agricultural Works, Buffalo, N. Y., Buffalo Pitts spring tooth, drag and smoothing.

Henry H. Lovejoy, Cambridge, N. Y.

W. G. Graves, Champlain, N. Y., Champlain spring tooth.

Geo. O. P. Turner, Churchville, N. Y.

Geo. Sweet & Co., Dansville, N. Y., Sweet spring tooth.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

HARROWS AND PULVERIZERS (Continued).

- Henry M. Willis, East Williston, L. I., N. Y., clamp tooth smoothing harrows.
 Herendeen Manufacturing Company, Geenva, N. Y., Thomas smoothing, Thomas reversible, Herendeen spring tooth wheel, Herendeen spring tooth floating.
 St. Lawrence Manufacturing Company, Gouverneur, N. Y., Corbin.
 H. S. Vanderburgh, Lithgow, N. Y., Elliott.
 Alex. R. Gebbie, Lowville, N. Y., Free Lance.
 Walker Manufacturing Company, Moravia, N. Y., Walker all steel spring tooth.
 Genesee Valley Manufacturing Company, Mt. Morris, N. Y., Fargo V-tooth. See page 82.
 H. N. Hubbard, 96 Chambers street, New York, N. Y., Square, Geddes and Hinge.
 Hobson & Company, 4 Stone street, New York, N. Y., folding.
 John Moore's Son, 193 Front street, New York, N. Y.
 Mann Manufacturing Company, Ogdensburgh, N. Y., Mann combined with seeder.
 Riverhead Agricultural Works, Riverhead, N. Y., reversible smoothing.
 Syracuse Chilled Plow Company, Syracuse, N. Y., Syracuse steel frame spring tooth.
 Chas. H. Childs & Co., Utica, N. Y., U. T. K. spring tooth.
 Childs & Jones, Utica, N. Y., oval frame spring tooth.
 Eureka Mower Company, Utica, N. Y., Eureka spring tooth.
 De Wane B. Smith & Co., Utica, N. Y., Deerfield.
 D. D. Bromley, Waterport, N. Y., smoothing.
 C. S. Frost, Watkins, N. Y.
 William Ripson & Son, Youngstown, N. Y.
 North Carolina Plow Company, Cary, N. C., Harrison's adjustable beam.
 C. M. Thompson, Lexington, N. C., Geddes.
 The A. W. Coates & Co., Alliance, O., Coates steel spring tooth.
 Hoover & Prout, Avery, O., Hoover triple independent section.
 Bryan Plow Company, Bryan, O., Drader's patent spade harrow.
 Shunk Plow Company, Bucyrus, O.
 Bucher & Gibbs Plow Company, Canton, O.
 A. J. Gunter & Co., (Cincinnati Plow & Bellows Works), Cincinnati, O.
 Smith, Amann & Co. (Columbus Plow Works), Columbus, O.
 Dayton Farm Implement Company, Dayton, O., Triumph disk.
 Farmers Friend Manufacturing Company, Dayton, O., Horse Shoe. See page 20.
 Ohio Rake Company, Dayton, O., Perfect, Golden Age.
 Stoddard Manufacturing Company, Dayton, O., New Climax, Tiger, Stoddard disk.
 McSherry Manufacturing Company, Dayton, O., New Model disk, American spring tooth.
 D. P. Emrick, Germantown, O., Superior.
 H. P. Deuscher Company, Hamilton, O., McColm pulverizer and clod crusher, Spread Eagle and Hamilton disk harrows, Hamilton steel tooth.
 A. F. Peterson, Kent, O., Imperial pulverizer and roller.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

HARROWS AND PULVERIZERS (Continued).

- R. Lean & Son, Mansfield, O., Lean's all steel, zig zag, Diamond, lever.
 Brown-Manly Plow Company, Malta, O.
 Spicer Manufacturing Company, New Philadelphia, O., Spicer spring tooth and sulky.
 L. W. Fillebrown & Son, Piqua, O., combined cultivator and harrow.
 F. B. Ogden, Republic, O., common sense.
 J. H. Yingling & Bro., Seven Mile, O., combined harrow and land roller.
 W. M. Toy, Sidney, O.
 A. C. Evans Manufacturing Company, Springfield, O., Evans.
 P. P. Mast & Co., Springfield, O.
 George E. Bechtolt, Urbana, O.
 J. A. Humason, Vienna, O.
 McCalmont & Co., Bellefonte, Pa., Paragon wooden frame steel clad spring tooth.
 James H. Albright, Laurelton, Pa., Albright spring tooth.
 Snoebergers & Bassler, Martinsburgh, Pa.
 Keystone Plow Company, Ltd., New Castle, Pa., Keystone.
 Vibrator Harrow Company, New Castle, Pa., Vibrator.
 A. Blaker & Co., Newtown, Pa., Blaker spring tooth.
 A. Speer & Sons (Globe Plow Works), Pittsburgh, Pa.
 Hench & Dromgold, York, Pa., Hench & Dromgold's spring tooth.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa., Carhart's reversible.
 Sullivan Manufacturing Company, Anderson, S. C., Climax.
 Lee Bros., Watertown, S. Dak., Watertown.
 Chattanooga Plow Company, Chattanooga, Tenn., Scotch.
 Hoppes & Edwards, Erin, Tenn.
 R. K. Chatham & Co., Bryan, Tex., Chatham.
 Vermont Snath Company, Springfield, Vt.
 Wrenn, Whitehurst & Co., Norfolk, Va., Boss smoothing.
 S. R. White & Bro., Norfolk, Va.
 H. O. Kerns, Sutherlin, Va.
 H. H. Hulfish, The Plains, Va.
 Gilbert, Hunt & Co., Walla Walla, Wash., Jackson.
 G. A. Paddock, Beaver Dam, Wis., Paddock's.
 J. Thompson & Sons, Ltd., Beloit, Wis., Standard wood and steel lever, Eclipse disk harrows. See page 102.
 Gesley Bros. Manufacturing Company, Beloit, Wis., Gesley lever harrows.
 E. C. Sherwin, Brandon, Wis., Sherwin's hingeless.
 D. W. Scobie, Cambridge, Wis., Scobie.
 J. M. Boyd, Fond du Lac, Wis., Boyd swivel, Boyd two way or reversible.
 G. H. Pounder, Ft. Atkinson, Wis., Pounder.
 L. O. Amondson, Gratiot, Wis., La Fayette lever and Amondson reversible.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

HARROWS AND PULVERIZERS (Continued).

Janesville Machine Company, Janesville, Wis., La Dow's patent and Budlong disk, rotary disk, La Dow and Planet pulverizers. See page 44.

O. C. Vaughn, Jefferson, Wis., Vaughn flexible.

La Crosse Plow Works (A. Hirschheimer, prop.), La Crosse, Wis., La Crosse adjustable, La Crosse lever, Daisy, Superior.

Wheel & Seeder Manufacturing Company, La Crosse, Wis., Fargo, La Crosse disk. Chrisler Bros. & Co., Lodi, Wis.

Fuller & Johnson Manufacturing Company, Madison, Wis., Bonanza, Wave, wood and steel lever, Uncle Sam disk.

A. T. Zilisch, Mayville, Wis.

J. I. Case Plow Works, Racine, Wis., Scotch, adjustable wood and steel frame lever.

Orvis Plow Company, Racine, Wis.

Belle City Manufacturing Company, Racine, Wis., Belle City. See page 72.

Foster & Williams, Racine, Wis., Scotch, reversible, adjustable. See page 85.

Hurlbut Manufacturing Company, Racine, Wis., Scotch. See page 108.

R. N. Rasmussen, Randolph, Wis.

F. Blocki, Sheboygan, Wis., Wisconsin, F. B.

HAY CARRIERS.

U. S. Wind Engine & Pump Company, Batavia, Ill., Standard swivel, Noyes anti-friction, Standard rod, Standard four wheel. See index to ads.

Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Pan Handle Machinery & Implement Company, Forth Worth, Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.

E. L. Church, Harvard, Ill., Church reversible, Church one way, Church rod or cable track.

Hunt, Helm & Ferris, Harvard, Ill., Star.

J. E. Porter, Ottawa, Ill., Porter's, Champion, Barnes. See ad. below.

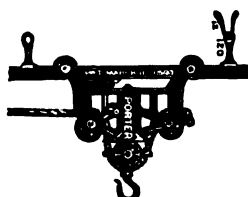
Jordan & Hamilton, Ottawa, Ill., Jordan, Ottawa.

Revolution in Hay Carrier Track.**PORTER'S SOLID STEEL TRACK.**

Simplest and best track yet invented; easy to put up, and can be made with a curve or with a switch to carry the hay to any desired point in the barn. If you wish the latest thing in

HAY CARRIERS, FORKS, PULLEYS, ROPE SLINGS or FIELD STACKERS,

Write the Pioneer Hay Carrier Manufacturer of the United States for catalogue and prices. Address—



Pat. March 11, 1890.

J. E. PORTER, - - Ottawa, Ill.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

The Janesville Hay Tool Co.,

**THE MOST COMPLETE LINE
IN THE MARKET.**



**Send for Prices and Catalogues. Address
JANESVILLE HAY TOOL CO., Janesville, Wis.**

HAY CARRIERS (Continued).

- Wisconsin Hay Tool Manufacturing Company, Ottawa, Ill., Jumbo, Grosscup.
 Loudon Machinery Company, Fairfield, Ia., eight wheel reversible sling, one way sling, iron rod and steel track, six wheel.
 L. C. Lull & Co., Kalamazoo, Mich., Jumbo.
 Allen P. Boyer, Sturgis, Mich.
 John Farrell, Huntsville, N. J., Farrell's.
 Chamberlain Manufacturing Company, Newton, N. J., Chamberlain's reversible.
 W. I. Scott, Bridgewater, N. Y., Clark's.
 J. A. Cross, Fultonville, N. Y., one way, reversible, Giant.
 Swift & Monfort, Millbrook, N. Y., Swift's.
 Ricker & Montgomery, Rochester, N. Y., Rochester.
 Syracuse Chilled Plow Company, Syracuse, N. Y., one way, reversible.
 Fowler & Farrington, Taughannock Falls, N. Y., Fowler.
 De Wane B. Smith & Co., Utica, N. Y., railway hay carriers.
 E. V. R. Gardner, West Town, N. Y., rod, wood track, reversible.
 F. E. Myers & Bro., Ashland, O.
 Ney Manufacturing Company, Canton, O.
 Fayette Manufacturing Company, Fayette, O., Chambard's.
 Oborn Bros., Marion, O., Eclipse, Monarch, Double Reversible.
 The E. W. Ross Company, Springfield, O., Little Giant, Ross pocket. See page 74.
 Superior Drill Company, Springfield, O., Hall's reversible.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

HAY CARRIERS (Continued).

Waldron & Sprout, Muncy, Pa.

Eagle Manufacturing Company, Appleton, Wis., Eagle, self reversing.

Janesville Hay Tool Company, Janesville, Wis., Strickler's dead lock, Boss, rod and cable, reversible and swivel, steel track. See page 106.

Milwaukee Hay Tool Company, Milwaukee, Wis., Milwaukee, Leader, Wisconsin reversible, swivel, rod and cable.

Geo. H. Rundle, Palmyra, Wis., Palmyra, Rundle's reversible.

HAY FORK ROPES.

Elizabethport Cordage Company, 46 South street, New York, N. Y. See page 20.

HORSE HAY FORKS.

Byron Jackson, San Francisco, Cal., Jackson's.

U. S. Wind Engine & Pump Company, Batavia, Ill., Noyes grapple forks, Harris double harpoon and Walker single harpoon. See index to ads.

Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Ft. Worth, Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.

J. E. Porter, Ottawa, Ill., Acme grapple, single and double harpoon. See page 105. Wisconsin Hay Tool Manufacturing Company, Ottawa, Ill., Acme grappling and harpoon.

Louden Machinery Company, Fairfield, Ia., Loudens's single, double and triple harpoon and balanced grapple.

Henry Grebe, Omaha, Neb., prairie hay fork and stacker.

Fitzhugh Manufacturing Company, Centreton, N. J., Fitzhugh.

John Farrell, Huntsville, N. J., Farrell's reversible.

Chamberlain Manufacturing Company, Newton, N. J., Chamberlain's drop tine grapple.

W. I. Scott, Bridgewater, N. Y.

Swift & Monfort, Millbrook, N. Y., Swift's steel grapple forks.

Ricker & Montgomery, Rochester, N. Y.

Syracuse Chilled Plow Company, Syracuse, N. Y., grappling, two, four and six tined.

De Wane B. Smith & Co., Utica, N. Y., grappling.

E. V. R. Gardner, West Town, N. Y., grappling.

Ney Manufacturing Company, Canton, O.

Oborn Bros., Marion, O., double harpoon, Walker, grapple.

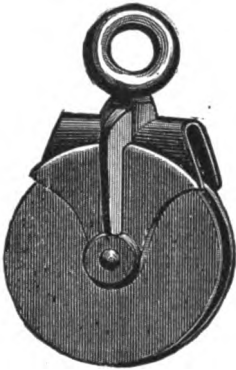
Superior Drill Company, Springfield, O., Superior, Rogers, Harris.

Waldron & Sprout, Muncy, Pa.

Geo. H. Rundle, Palmyra, Wis., Rundle's Champion grapple, single and double.

Eagle Manufacturing Company, Appleton, Wis., Miller's grappling and harpoon forks.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.



HAY FORK PULLEYS !

We can furnish Dealers with First-Class Goods, Castings Japanned, Oiled Maple Pulleys at a **VERY LOW PRICE**, if ordered **AT ONCE**, for immediate or future delivery. *Write us for Prices.*

HURLBUT MANUFACTURING CO.,
RACINE, WISCONSIN.

HORSE HAY FORKS (Continued).

- J. M. Boyd, Fond du Lac, Wis., Boyd grapple.
 Janesville Hay Tool Company, Janesville, Wis., harpoon and grappling double and single dead lock. See page 106.
 Milwaukee Hay Tool Company, Milwaukee, Wis., Milwaukee single, Harris Standard and Standard Short-Head double harpoon forks, Milwaukee grapple forks.

HAY FORK PULLEYS.

- U. S. Wind Engine & Pump Company, Batavia, Ill. See index to ads.
 Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Fort Worth, Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.
 J. E. Porter, Ottawa, Ill. See page 105.
 Wisconsin Hay Tool Manufacturing Company, Ottawa, Ill.
 Loudon Machinery Company, Fairfield, Ia.
 Ricker & Montgomery, Rochester, N. Y.
 E. C. Stearns & Co., Syracuse, N. Y.
 Syracuse Chilled Plow Company, Syracuse, N. Y.
 J. S. & M. Peckham, Utica, N. Y.
 Janesville Hay Tool Company, Janesville, Wis. See page 106.
 Milwaukee Hay Tool Company, Milwaukee, Wis.
 Foster & Williams, Racine, Wis. See page 85.
 Hurlbut Manufacturing Company, Racine, Wis. See ad. above.

HAY LOADERS.

- Chambers, Bering, Quinlan Company, Decatur, Ill., Hawkeye swath.
 Deere & Mansur Company, Moline Ill., Deere.
 J. E. Porter, Ottawa, Ill., Porter's. See page 105.
 Rock Island Plow Company, Rock Island, Ill., Rock Island-Jewett.
 Keystone Manufacturing Company, Sterling Ill. See page 18.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

HAY LOADERS (Continued).

Sterling Manufacturing Company, Sterling, Ill., Sterling, Victor swath and windrow.

Louden Machinery Company, Fairfield, Ia., Louden's two pole.

C. C. Jewett, Sand Springs, Ia., Jewett swath and windrow.

Kansas City Hay Press Company, Kansas City, Mo., Lightning.

U. S. Hay Press Supply Company, Kansas City, Mo.

E. Cooper, Theresa, N. Y.

HAY UNLOADERS.

J. E. Porter, Ottawa, Ill. See page 105.

Wisconsin Hay Tool Manufacturing Company, Ottawa, Ill.

Louden Machinery Company, Fairfield, Ia.

Syracuse Chilled Plow Company, Syracuse, N. Y.

Fayette Manufacturing Company, Fayette, O., Chambard's.

HAY RAKES, RICKERS, LOADERS AND STACKERS.

Famous Manufacturing Company, Chicago, Ill., Peerless. See index to ads.

Chambers, Bering, Quinlan Company, Decatur, Ill., Hawkeye swath hay loader.

J. E. Porter, Ottawa, Ill. See page 105.

Acme Harvester Company, Pekin, Ill., Monarch and Acme rakes to work with Acme hay stackers.

C. C. Jewett, Sand Spring, Ia., New Improved Jewett.

Bovee Harvesting Machine Company, Tama, Ia., Bovee's.

Hannibal Hay Harvester Company, Hannibal, Mo., Meadow Queen.

Fleming Manufacturing Company, Huntsville, Mo., Fleming's U. S.

Gilliland, Jackson & Co., Monroe City, Mo., Daisy.

Farmers Friend Manufacturing Company, Dayton, O., Beck improved hay rake and loader. See page 20.

Stoddard Manufacturing Company, Dayton, O., New Era.

HAY SLINGS.

Louden Machinery Company, Fairfield, Ia., Standard, Economy, California.

J. E. Porter, Ottawa, Ill., Little Giant. See page 106.

Wisconsin Hay Tool Manufacturing Company, Ottawa, Ill.

Allen P. Boyer, Sturgis, Mich., Hercules.

Ricker & Montgomery, Rochester, N. Y., Rochester.

F. E. Myers & Bro., Ashland, O.

Fayette Manufacturing Company, Fayette, O., Chambard's.

J. W. & A. B. Wood, Baraboo, Wis., Wood's bottom trip.

Janesville Hay Tool Company, Janesville, Wis. See page 106.

HAY STACK COVERS.

Gilbert Cover Company, Newark, N. J.

National Waterproof Fibre Company, 27 South street, New York, N. Y.

J. A. McAuley & Peters, Columbus, O.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

HAY HOISTING SINGLETREES.

Louden Machinery Company, Fairfield, Ia., Louden's patent.

HAY STACKERS.

Stearns Manufacturing Company, Los Angeles, Cal.
Byron Jackson, San Francisco, Cal., Eclipse.
J. E. Porter, Ottawa, Ill., Porter's perfect wood frame. See page 105.
Famous Manufacturing Company, Chicago, Ill., Peerless. See index to ads.
Acme Harvester Company, Pekin, Ill., Acme, Senior, Acme Junior mounted.
Louden Machinery Company, Fairfield, Ia., Louden's single pole and two pole.
Jenkins Hay Rake & Stacker Company, Ft. Madison, Ia., Jenkins.
A. L. Courtright & Co., Keokuk, Iowa, Hawkeye.
Fair, Williams & Co., Ottumwa, Ia., Advance.
Bovee Harvesting Machine Company, Tama, Ia., Bovee windlass.
Dain Manufacturing Company, Carrollton, Mo., Automatic.
Hannibal Hay Harvester Company, Hannibal, Mo.
Fleming Manufacturing Company, Huntsville, Mo., Fleming's U. S.
U. S. Hay Press Supply Company, Kansas City, Mo., New Daisy.
T. R. & A. Manufacturing Company, Kansas City, Mo.
Gilliland, Jackson & Co., Monroe City, Mo., Daisy.
Henry Grebe, Omaha, Neb., Nebraska.

HAY TOOL SUPPLIES.

Byron Jackson, San Francisco, Cal.
E. L. Church, Harvard, Ill.
J. E. Porter, Ottawa, Ill. See page 105.
Wisconsin Hay Tool Manufacturing Company, Ottawa, Ill.
Louden Machinery Company, Fairfield, Ia.
L. C. Lull & Co., Kalamazoo, Mich.
Syracuse Chilled Plow Company, Syracuse, N. Y.
Ney Manufacturing Company, Canton, O.
Oborn Bros., Marion, O., pulleys, hooks, etc.
Waldron & Sprout, Muncy, Pa.
Janesville Hay Tool Company, Janesville, Wis. See page 106.
Milwaukee Hay Tool Company, Milwaukee, Wis.

HAYING MACHINERY.

J. E. Porter, Ottawa, Ill., cable derricks, crane derricks, field stackers and frames, hay rakes, hay sweeps. See page 105.

HAND HAY RAKES.

E. A. Rogers, New Hartford, Conn.
Iowa Farming Tool Company, Ft. Madison, Ia.
Rugg Manufacturing Company, Greenfield, Mass.
J. C. Garfield & Son, Tyringham, Mass.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

HAND HAY RAKES (Continued).

S. A. Millard Manufacturing Company, Clayville, N. Y.
 Ashtabula Tool Company, Ashtabula, O., Diamond Brand.
 Burton Handle Company, Burton, O., wood and wire bows.
 Piqua Handle & Manufacturing Company, Piqua, O.
 H. S. Walck, Greencastle, Pa.

HAY RACKS.

G. A. Barton, Three Rivers, Mich., Champion.
 H. N. Hubbard, 96 Chambers street, New York, N. Y., Hubbard's iron.

HAY RAKES, TO WORK WITH STACKERS.

Byron Jackson, San Francisco, Cal., Acme.
 Acme Harvester Company, Pekin, Ill., Monarch and Acme.
 Famous Manufacturing Company, Chicago, Ill., Peerless. See index to ads.
 Loudon Machinery Company, Fairfield, Ia., Improved Western.
 Jenkins Hay Rake & Stacker Company, Ft. Madison, Ia., Jenkins.
 Laidlaw & Clark Hay Press Manufacturing Company, Cherokee, Kan.
 George & Tweedale, Constantine, Mich., Constantine self-discharging.
 Dain Manufacturing Company, Carrollton, Mo.
 Hannibal Hay Harvester Company, Hannibal, Mo., Meadow Queen.
 Fleming Manufacturing Company, Huntsville, Mo., Fleming's U. S. four wheeled.
 T., R. & A. Manufacturing Company, Kansas City, Mo., Dain automatic gatherers.
 Kansas City Hay Press Company, Kansas City, Mo., Lightning.
 N. H. McCall, Monroe City, Mo., Champion with sulky attachment.
 Gilliland, Jackson & Co., Monroe City, Mo., Daisy.
 Henry Grebe, Omaha, Neb.
 Foster & Williams, Racine, Wis. See page 85.

HAY RAKES.

Edwin Risley & Son, Rocky Hill, Conn.
 Kirkwood, Miller & Co., Peoria, Ill., Champion hay rake and tedder combined.
 H. B. Busing & Co., Rockford, Ill., N. C. Thompson.
 Keystone Manufacturing Company, Sterling, Ill., Side Delivery. See page 18.
 Sterling Manufacturing Company, Sterling, Ill., Champion and Sterling revolving.
 Rude Bros. Manufacturing Company, Liberty, Ind., Indiana.
 Reed & Rogers, Vernon, Ind., Excelsior and Peerless, wood.
 A. L. Courtright & Co., Keokuk, Ia., Keokuk.
 Bracewell & Marick, Lineville, Ia., Alexander rake and hay wagon.
 H. P. Kynett, Lisbon, Ia.
 J. R. Mears, Morrill, Me.
 D. F. Hull, Hagerstown, Md., Hagerstown.
 Hagerstown Iron Works, Hagerstown, Md., U. S.
 A. W. Stevens & Son, Auburn, N. Y., Stevens.
 Alpheus Bailey, Sand Lake, N. Y., Excelsior.

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HAY RAKES (Continued).

Columbia Agricultural Works, Columbia, Pa., hand dump.

Krauss Bros., Geryville, Pa.

Hauck & Comstock, Mechanicsburgh, Pa., Novelty. See page 42.

A. Blaker & Co., Newtown, Pa., Blaker self dump.

S. S. Messinger & Son, Tatamy, Pa., Empire.

Wheel & Seeder Manufacturing Company, La Crosse, Wis., Yankee self dump.

STALK RAKES.

Henry Grebe, Omaha, Neb., Grebe.

J. H. Yingling & Bro., Seven Mile, O., Revolving.

SULKY HAY RAKES.

Byron Jackson, San Francisco, Cal., Acme.

Sucker State Drill Company, Belleville, Ill.

David Bradley Manufacturing Company, Chicago, Ill., Bradley, Chicago, hand and self dump.

Plano Manufacturing Company, Chicago, Ill., Plano.

Chambers, Bering, Quinlan Company, Decatur, Ill., C. B. & Q. side delivery hay rake.

Daley Manufacturing Company, De Kalb, Ill., Daley.

Geo. W. Brown & Co., Galesburgh, Ill., Knox.

Craver, Steele & Austin, Harvey, Ill., Steele.

Deere & Mansur Company, Moline, Ill., Deere.

Moline Plow Company, Moline, Ill., Moline combined hand dump. See index to ads.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia.

Millikin, Cisle & Co., Peoria, Ill.

Emerson, Talcott & Company, Rockford, Ill., Standard eight, twelve and fourteen feet. See index to ads.

Rockford Manufacturing Company, Rockford, Ill.

Keystone Manufacturing Company, Sterling, Ill., easy dump, Galt side delivery. See page 18.

Sterling Manufacturing Company, Sterling, Ill., Sterling, eight, ten, twelve and fourteen feet wide.

Abram Ellwood, Sycamore, Ill., Veteran self dump, Young Reuben hand dump.

Rude Bros. Manufacturing Company, Liberty, Ind., Indiana.

Hoosier Drill Company, Richmond, Ind., New Hoosier.

Eagle Manufacturing Company, Davenport, Ia., Eagle.

J. R. Mears, Morrill, Me., Pianna.

Chas. G. Allen & Co., Barre, Mass., Yankee.

Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., Nye's National.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

HAY RAKES (Continued).

- Gale Manufacturing Company, Albion, Mich., Daisy.
 Ann Arbor Agricultural Company, Ann Arbor, Mich., Ideal, Advance.
 Risedorph Agricultural Works, Albany, N. Y.
 Wiard Plow Company, Batavia, N. Y., Wiard improved.
 Patten, Stafford & Myer, Canastota, N. Y., New York Champion, Empire State.
 Alex. Van Valkenburgh, Halcott Centre, N. Y.
 Walter A. Wood Mowing & Reaping Machine Company, Hoosick Falls, N. Y.,
 Walter A. Wood self dump and hand dump. See page 130.
 Williams Bros., Ithaca, N. Y., Ithaca. See page 65.
 Columbia Drill Company, Jamestown, N. Y., Robison.
 Alpheus Bailey, Sand Lake, N. Y., Excelsior.
 Empire Drill Company, Shortsville, N. Y., Sheldon hand and self dump. See
 page 84.
 The A. W. Coates & Co., Alliance, O., Coates, Globe.
 Ohio Cultivator Company, Bellevue, O., Stahl.
 Chieftain Rake & Tedder Company, Canton, O., Chieftain hand dump, Golden
 Farmer self dump.
 John Dodds, Dayton, O., Hollingsworth, Reindeer, Taylor No. 4, Red Bird, Gem.
 Ohio Rake Company, Dayton, O., Hollingsworth, Gazelle, Ohio, Star, Farm Queen,
 Victor.
 Stoddard Manufacturing Company, Dayton, O., Tiger, Columbia self dump, Hol-
 lingsworth, Tiger with tedder, New Hollingsworth, Granger lock lever.
 H. P. Deuscher Company, Hamilton, O., Master, Lone Star.
 Long & Allstatter Company, Hamilton, O., Hamilton.
 Hocking Valley Manufacturing Company, Lancaster, O., Hocking Valley.
 G. S. Foos Company, Springfield, O., Standard.
 Thomas Manufacturing Company, Springfield, O., Thomas, Royal, Imperial Ban-
 ner, Ideal.
 P. P. Mast & Co., Springfield, O.
 Springfield Implement Company, Springfield, O., Springfield.
 Tiffin Agricultural Works, Tiffin, O., Hay King and Perfect self dump, Reliable,
 O. K. and Hollingsworth hand dump, Eclipse.
 J. H. Albright, Laurelton, Pa.
 Hauck & Comstock, Mechanicsburgh, Pa., Novelty, Valley. See page 42.
 A. Blaker & Co., Newtown, Pa., Blaker self dump.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa.
 J. S. Rowell Manufacturing Company, Beaver Dam, Wis., Northwestern self
 dump, Rowell self dump.
 J. Thompson & Sons, Ltd., Beloit, Wis., Beloit, Hollingsworth, J. Thompson self-
 dump, Queen Bee. See page 102.
 Wheeler & Seeder Manufacturing Company, La Crosse, Wis., Yankee hand and
 self dump.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

HAY RAKES (Continued).

La Crosse Plow Works (A. Hirshheimer, prop.), La Crosse, Wis., La Crosse.
Fuller & Johnson Manufacturing Company, Madison, Wis., Bonanza, Western
Star, Johnson self dump.

DRAG RAKES.

M. C. Hobbs, West Farmington, Me.
Rugg Manufacturing Company, Greenfield, Mass., Standard, Victor.
G. S. Foos Company, Springfield, O., Standard.
D. S. Patterson & Son, Brookfield, Vt., Standard.
W. H. Stearns, Johnson, Vt.

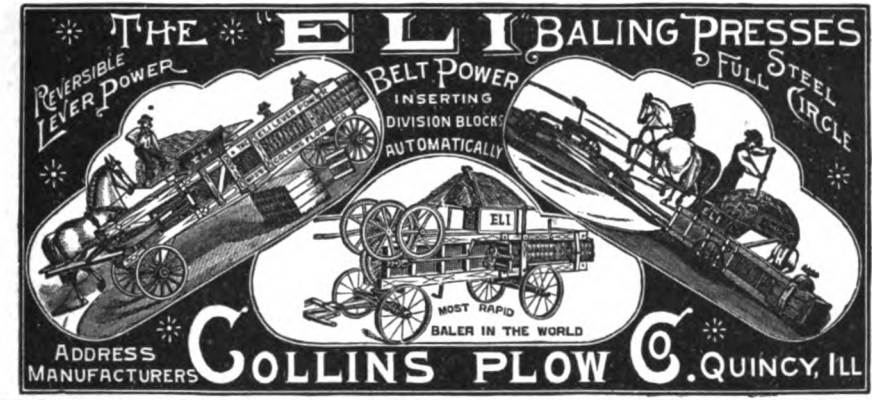
REVOLVING HAY RAKES.

Sterling Manufacturing Company, Sterling, Ill., Sterling and Champion.
Wayne Works, Richmond, Ind., Richmond Champion.
Reed & Rogers, Vernon, Ind., Excelsior, Clipper, Peerless.
A. H. Chaplin, Tecumseh, Mich., Chaplin's steel spring revolving.
Burton Handle Company, Burton, O., Burton.
Hughes & Smythe, Galena, O., Victor, Galena.
Tiffin Agricultural Works, Tiffin, O., Barnes, Hall, Tiffin.
J. A. Humason, Vienna, O.

TEDDERS.

Kirkwood, Miller & Co., Peoria, Ill., Champion hay rake and tedder combined.
Sterling Manufacturing Company, Sterling, Ill., Sterling six fork and eight fork.
Ames Plow Company, Boston, Mass., and New York, N. Y., Garfield's American.
Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., Bullard's Improved.
Richardson Manufacturing Company, Worcester, Mass., Bullard.
Ann Arbor Agricultural Company, Ann Arbor, Mich., Advance.
Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich.,
Grand Rapids. See page 79.
Patten, Stafford & Myer, Canastota, N. Y., New York Champion.
A. M. Ross & Co., Ilion, N. Y.
Chieftain Rake & Tedder Company, Canton, O., Chieftain.
John Dodds, Dayton, O.
Stoddard Manufacturing Company, Dayton, O., Tiger.
Ohio Rake Company, Dayton, O., tedder and rake combined.
Spicer Manufacturing Company, New Philadelphia, O., Spicer.
Thomas Manufacturing Company, Springfield, O., Thomas.
G. S. Foos Company, Springfield, O., Standard.
Tiffin Agricultural Works, Tiffin, O., Tiffin.
R. W. Renard, Hogestown, Pa., Dolphin hay tedder, rake and loader combined.
I. B. Rowell & Co., Menomonee Falls, Wis., Eureka.
Silberzahn Manufacturing Company, West Bend, Wis., Silberzahn.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.



HEDGE TRIMMING MACHINES.

C. T. Swartz, El Paso, Ill., Champion.

HAY KNIVES.

Winsted Manufacturing Company, Winsted, Conn.
 Beardsley Scythe Company, West Winsted, Conn.
 The Hiram Holt Company, East Wilton, Me., Lightning.
 North Wayne Tool Company, Hallowell, Me., Brook's Improved.
 Dunn Edge Tool Company, Oakland, Me., Cyclone.
 Hubbard & Blake Manufacturing Company, Oakland, Me.
 G. & M. Nolin, Skowhegan, Me., Nolin.
 New London Scythe Company, Scytheville, N. H., Gem.
 Auburn Manufacturing Company, Auburn, N. Y.
 David Wadsworth & Son, Auburn, N. Y., Spearmint and Cimeter.
 James Russell Barrett Company, Syracuse, N. Y., Heath patent upright.
 Ney Manufacturing Company, Canton, O.

HAY AND BALING PRESSES.

Curry Manufacturing Company, Florence, Ala.
 Benicia Agricultural Works, Benicia, Cal., Improved Petaluma.
 Stearns Manufacturing Company, Los Angeles, Cal.
 Truman, Hooker & Co., San Francisco, Cal., Petaluma.
 San Jose Agricultural Works, San Jose, Cal., San Jose, Senior and Junior, Petaluma.
 Price Hay Press Company, San Leandro, Cal., Hurricane, Little Giant, Monarch, Junior Monarch, Price or Petaluma, Eagle.
 Stockton Combined Harvester & Agricultural Works, Stockton, Cal., Miller.
 Jackson-Croze Manufacturing Company, Denver, Col., Jackson.
 Georgia Hay Press Company, Dalton, Ga., Georgia.
 Famous Manufacturing Company, Chicago, Ill., Champion steam, full circle, half circle, hand. See page 116.
 J. A. Spencer, Dwight, Ill., Alligator.

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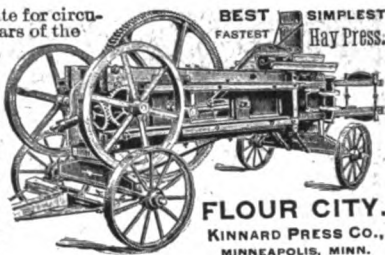


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325 Dearborn St., Chicago, Ill.

HAY AND BALING PRESSES (Continued).

- Automatic Mower & Manufacturing Company, Chicago, Ill.
Gustave Wenzelmann, Missal, Ill., Farmer's Own.
Kirkwood, Miller & Co., Peoria, Ill., K. M. & Co.
Collins Plow Company, Quincy, Ill., Eli. See page 115.
George Ertel & Co., Quincy, Ill., Ertel's Victor, Economy, Farmer's Friend, Clipper.
Quincy Baling Press Company, Quincy, Ill., Noxall, Standard.
Barlow Corn Planter Company, Quincy, Ill., Globe. See page 94.
Sandwich Manufacturing Company, Sandwich, Ill., Samson.
Indianapolis Excelsior Manufacturing Company, Indianapolis, Ind., Johnson.
Flint & Walling Manufacturing Company, Kendallville, Ind., Hoosier.
Laidlaw & Clark Hay Press Manufacturing Company, Cherokee, Kan., Monarch half circle, Laidlaw full circle.
Ford Giant Press Company, Louisville, Ky., Giant.
The Cone Baling Press Company, 206 N. Halliday street, Baltimore, Md., hand power.
Ann Arbor Agricultural Company, Ann Arbor, Mich., Advance.
Kinnard Press Company, Minneapolis, Minn., Flour City. See ad. above.
A. J. Hyde, Meridian, Miss.
Progress Manufacturing Company, Meridian, Miss., Ideal.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

HAY AND BALING PRESSES (Continued).

Kansas City Hay Press Company, Kansas City, Mo., Lightning steel, Thunder wood.

U. S. Hay Press Supply Company, Kansas City, Mo., Scott.

Whitman Agricultural Company, St. Louis, Mo., Whitman's belt or steam power, half or full circle, reversible, hand power.

Hercules Lever Jack Company, Irvington, N. J., Tichenor's hand power.

P. K. Dederick & Co., Albany, N. Y.

D. B. Hendricks, Kingston, N. Y.

John Moore's Son, 193 Front street, New York, N. Y.

Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa., Farquhar-Seeley.

Wrenn, Whitehurst & Company, Norfolk, Va., Monarch for hay and cotton.

Watt Plow Company, Richmond, Va., Minnich.

HAY DERRICKS.

J. E. Porter, Ottawa, Ill., Porter's champion cable derrick. See page 105.

HOP PRESSES.

Truman, Hooker & Co., San Francisco, Cal., Economy.

Price Hay Press Company, San Leandro, Cal., Hercules.

BALE TIES.

W. J. Adam, Joliet, Ill., Anchor, nail and adjustable. See page 48.

Joliet Barb Wire Company, Joliet, Ill.

Laidlaw & Clark Hay Press Manufacturing Company, Cherokee, Kan., Adjustable.

Washburn & Moen Manufacturing Company, Worcester, Mass.

U. S. Hay Press Supply Company, Kansas City, Mo., adjustable.

Cincinnati Barbed Wire Fence Company, Cincinnati, O.

Kilmer Manufacturing Company, Newburgh, N. Y.

W. C. Downey & Co., Mechanicsburgh, O., Smith's.

HITCHING POSTS.

Novelty Iron Works, Dubuque, Ia. See index to ads.

Keokuk Wind Engine Company, Keokuk, Ia., Perfect.

Battle Creek Machinery Company, Battle Creek, Mich., Iron.

Donaldson Bros., Mt. Clemens, Mich.

Gowanda Agricultural Works Company, Gowanda, N. Y., Acorn.

Delaware County Iron Works, Margaretville, N. Y.

HOG RINGS AND RINGERS.

H. W. Hill & Co., Decatur, Ill., Hill's old style and improved, Hill's triangular.

E. Blair, Bucyrus, O., Blair's.

HOG SCALDERS.

D. R. Sperry & Co., Batavia, Ill., Sperry's.

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HOG WATERERS.

Sandwich Enterprise Company, Sandwich, Ill., Enterprise, Southern. See index to ads.

Carter Bros., Des Moines, Ia., Carter's.

HOES.

Iowa Farming Tool Company, Ft. Madison, Ia.

Withington & Cooley Manufacturing Company, Jackson, Mich.

E. S. & F. Bateman, Grenloch, N. J., Superb.

Auburn Manufacturing Company, Auburn, N. Y.

S. A. Millard Manufacturing Company, Clayville, N. Y., Acme planter, cotton, field.

Binghamton Hoe & Tool Company, Binghamton, N. Y.

L. Bolles Hoe & Tool Company, Binghamton, N. Y.

Smith Harper, Fox Chase, Philadelphia, Pa.

J. A. Hood, 75 Laurel street, Philadelphia, Pa., Ratchet.

HORSE HOES.

Benicia Agricultural Works, Benicia, Cal., Benicia.

O. W. Goslee, Buckingham, Conn.

Higginum Manufacturing Corporation, Higginum, Conn., Ideal, Higginum.

David Bradley Manufacturing Company, Chicago, Ill.

Timothy B. Hussey, North Berwick, Me., New Model Centennial combined horse hoe and cultivator.

F. C. Merrill, South Paris, Me.

Ames Plow Company, Boston, Mass., and New York, N. Y.

Wm. P. Ford & Co., Concord, N. H.

E. S. & F. Bateman, Grenloch, N. J., Iron Age.

W. G. Graves, Champlain, N. Y., Palmer.

S. A. Millard Manufacturing Company, Clayville, N. Y., Acme.

B. W. Bramer, Fabius, N. Y.

W. Eddy & Sons, Greenwich, N. Y.

Reynolds & Lang, Ithaca, N. Y., Reynolds & Lang's patent.

Syracuse Chilled Plow Company, Syracuse, N. Y.

J. S. & M. Peckham, Utica, N. Y.

S. L. Allen & Co., 1107 Market street, Philadelphia, Pa., Planet Jr.

HORSE POWERS.

Benicia Agricultural Works, Benicia, Cal., Fresno, Benicia and Gillis Improved.

F. W. Krogh & Co., San Francisco, Cal., Pony, Eagle, Dairy Queen, Eclipse, Economy, Monitor.

Geo. S. Grier & Son, Milford, Del.

G. D. Colton & Co., Galesburgh, Ill.

Mankato Manufacturing Company, Mankato, Minn.

R. R. Howell & Co., Minneapolis, Minn.

Edgecombe Agricultural Works, Tarboro, N. C.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

HORSE POWERS (Continued).

- New Jersey Agricultural Works, Trenton, N. J., Butterworth double pinion lever, Butterworth steel tread powers.
- The E. W. Ross Company, Springfield, O., Ross tread and sweep powers. See page 74.
- Aaron Wissler, Brunnerville, Pa., Iron King. See index to ads.
- Roberts Machine Company, Collegeville, Pa., New Model.
- A. Buch & Son, Elizabethtown, Pa.
- Krauss Bros., Geryville, Pa., New Champion.
- E. B. Marsh & Bro., Snyderville, Pa., lever.
- S. S. Messinger & Son, Tatamy, Pa., Empire tread and lever power.
- Steven G. Cree, Wheelock, Vt.
- Edinburgh Agricultural Works, Edinburgh, Va.
- H. M. Smith & Co., Richmond, Va., Richmond, Virginia.
- Cornish, Curtis & Greene, Ft. Atkinson, Wis.
- E. H. Pease Manufacturing Company, Racine, Wis. Adams. See page 69.

HORSE POWERS, FOR THRESHING.

- Pitts Manufacturing Company, Marseilles, Ill., Chicago Pitts, mounted and down, six to twelve horse.
- M. Rumely Company, La Porte, Ind., Dingee, Woodbury. See page 64.
- Jas. G. Blythe, receiver for B. F. Dow & Co., Peru, Ind., B. F. Dow & Co., Woodbury, Pitts or Carey.
- Robinson & Co., Richmond, Ind.
- John S. Davis' Sons, Davenport, Ia., Davis. See index to ads.
- Advance Thresher Company, Battle Creek, Mich.
- Nichols & Shepard Company, Battle Creek, Mich.
- Roberts, Throp & Co., Three Rivers, Mich.
- Minneapolis Threshing Machine Company, Minneapolis, Minn., Reliance.
- Minnesota Thresher Manufacturing Company, Stillwater, Minn., Centerless Pitts, Woodbury.
- Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Carey.
- The Birdsall Company, Auburn, N. Y.
- The Pitts Agricultural Works, Buffalo, N. Y., Buffalo Pitts.
- St. Johnsville Agricultural Works, St. Johnsville, N. Y., tread and sweep powers.
- The Westinghouse Company, Schenectady, N. Y., endless chain, lever.
- C. Aultman & Co., Canton, O., Carey, Dingee-Woodbury.
- The Aultman & Taylor Company, Mansfield, O., Woodbury.
- L. Spence, Martin's Ferry, O., Carey, Bellaire, Kelly, Woodbury, improved.
- Russell & Co., Massillon, O., Dingee-Woodbury, Pitts-Carey.
- C. & G. Cooper & Co., Mt. Vernon, O.
- O. S. Kelly Company, Springfield, O. See page 98.
- Aaron Wissler, Brunnerville, Pa., Iron King. See index to ads.
- Roberts Machine Company, Collegeville, Pa., New Model.
- J. Robison & Son, Curwensville, Pa.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

HORSE POWERS, FOR THRESHING (Continued).

Krauss Bros., Geryville, Pa.
 The Ellis Keystone Agricultural Works, Pottstown, Pa.
 Y. C. Freed & Co., Royersford, Pa.
 S. S. Messinger & Son, Tatamy, Pa., Empire.
 Frick Company, Waynesborough, Pa., Dingee-Woodbury triple geared.
 Geiser Manufacturing Company, Waynesborough, Pa., Geiser.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa., Climax.
 B. F. Rollins, St. Johnsbury, Vt.
 Cardwell Machine Company, Richmond, Va., Cardwell's, Carey.
 H. M. Smith & Co., Richmond, Va., Virginia, Richmond.
 J. I. Case Threshing Machine Company, Racine, Wis., Dingee.

HORSE POWERS, FOR GRINDING, ETC.

Challenge Wind Mill & Feed Mill Company, Batavia, Ill.
 U. S. Wind Engine & Pump Company, Batavia, Ill. See index to ads.
 Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Forth Worth, Tex., Geo. G. Creamer, 80 S Market street, Boston, Mass.
 F. C. Austin Manufacturing Company, corner Carpenter street and Carroll avenue Chicago, Ill.
 Staver & Abbott Manufacturing Company, 383 Wabash avenue, Chicago, Ill., Buckeye.
 David Bradley Manufacturing Company, Chicago, Ill., Packer portable upright.
 Bristol & Gale Company, 32 South Canal street, Chicago, Ill., Taylor overhead.
 Fairbanks, Morse & Company, Chicago, Ill.
 Stover Manufacturing Company, Freeport, Ill., Ideal.
 Joliet Manufacturing Company, Joliet, Ill.
 Pitts Manufacturing Company, Marseilles, Ill., sweep powers, one to four horse tread power, one and two horse.
 Marseilles Manufacturing Company, Marseilles, Ill., one to ten horse power. See page 36.
 King & Hamilton Company, Ottawa, Ill., Woodbury eight, ten and twelve horse; Climax six and eight horse.
 Sandwich Manufacturing Company, Sandwich, Ill., Samson.
 Keystone Manufacturing Company, Sterling Ill., Keystone one to eight horse; Taylor overhead powers, four, two and one horse. See page 18.
 Sterling Manufacturing Company, Sterling, Ill., Sterling Famous.
 Abram Ellwood, Sycamore, Ill., Ellwood.
 Seward Company, Bloomington, Ind.
 Nordyke & Marmon Company, Indianapolis, Ind. See page 92.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

HORSE POWERS, FOR GRINDING, ETC. (Continued).

- Flint & Walling Manufacturing Company, Kendallville, Ind.
 Jacob Bros., Avoca, Ia.
 Novelty Iron Works, Dubuque, Ia. See index to ads.
 A. C. Clark & Co., Manchester, Ia., light power for churning.
 Morgan, Kelly & Taneyhill, Waterloo, Ia., Little Giant.
 E. A. Porter & Bros., Bowling Green, Ky.
 Evan Davis & Son, Butler, Md., Pelton.
 Hildreth Bros., Harvard, Mass.
 H. A. Currier, Almont, Mich.
 Ann Arbor Agricultural Company, Ann Arbor, Mich.
 Battle Creek Machinery Company, Battle Creek, Mich., Little All Right, Battle Creek.
 Smith & Pomeroy, Kalamazoo, Mich., Adams barn floor horse power.
 F. B. Bignell, Smyrna, Mich.
 Sumner Manufacturing Company, Hutchinson, Minn.
 Kinnard Press Company, Minneapolis, Minn., Flour City. See page 116.
 J. L. Owens & Co., Minneapolis, Minn., Owens triangle frame.
 Diamond Feed Mill Manufacturing Company, Owatonna, Minn.
 W. Z. Haight, Winnebago City, Minn., Haight's.
 Whitman Agricultural Company, St. Louis, Mo., one and two horse; lever powers, all sizes.
 Geo. K. Oyler & Co., St. Louis, Mo., Oyler's, one, two and four horse.
 M. K. Lewis & Sons, Hastings, Neb.
 Schoharie County Agricultural Works (S. K. Campbell), Central Bridge, N. Y.
 Chas. Schoepflin & Bro., Gardenville, N. Y., one and two horse sweep.
 Gowanda Agricultural Works, Gowanda, N. Y., Totman's.
 Treman, Waterman & Co., Ithaca, N. Y., Ithaca.
 Hobson & Co., 4 Stone street, New York, N. Y., Andean, Wachusett.
 Goulds Manufacturing Company, Seneca Falls, N. Y.
 Jas. L. Haven Company, Cincinnati, O.
 Forest City Machine Works, Cleveland, O., Champion.
 American Foundry & Machine Company, Bowling Green, O., Champion triple geared.
 Lehr Agricultural Company, Fremont, O., one, two and four horse.
 Eagle Machine Company, Lancaster, O., Eagle one, two and four horse sweep powers.
 Hocking Valley Manufacturing Company, Lancaster, O.
 Paige Manufacturing Company, Painesville, O., single and double geared.
 Star Manufacturing Company, New Lexington, O., Star mill and power combined.
 M. L. Edwards Manufacturing Company, Salem, O.
 Critz & Co., Seville, O.

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HORSE POWERS, FOR GRINDING, ETC. (Continued).

Foos Manufacturing Company, Springfield, O., Scientific.
 The E. W. Ross Company, Springfield, O., Ross sweep. See page 74.
 C. C. Phillips, 20 S. Broad street, Philadelphia, Pa.
 Lessig & Bro. Agricultural Works, Reading, Pa., Lessig's.
 A. Hamacek & Co., Ahnapee, Wis.
 Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., Hero, Appleton. See page 90.
 Valley Iron Works Manufacturing Company, Appleton, Wis., Iron King, Champion.
 Smalley Manufacturing Company, Manitowoc, Wis., Smalley.
 Richards Iron Works, Manitowoc, Wis.
 A. T. Zilisch, Mayville, Wis.
 D. T. H. MacKinnon, Menasha, Wis., Globe.
 S. Freeman & Sons Manufacturing Company, Racine, Wis.
 Peter Fischer, Milwaukee, Wis.
 Belle City Manufacturing Company, Racine, Wis. See page 72.
 Foster & Williams, Racine, Wis. See page 85.
 E. H. Pease Manufacturing Company, Racine, Wis., Adams. See page 69.
 F. Blocki, Sheboygan, Wis.
 Meyer & Schrage, Sheboygan, Wis.
 Kohler, Hayssen & Stehn Manufacturing Company, Sheboygan, Wis., Champion Bell.
 B. H. & J. Sanford, Sheboygan Falls, Wis., Iron King.
 Silberzahn Manufacturing Company, West Bend, Wis.

RAILWAY OR TREAD HORSE POWERS.

Star Manufacturing Company, Carpentersville, Ill.
 Carpenter & Genung, Independence, Ia., Carpenter's self-regulating level tread.
 Whitman Agricultural Works, Auburn, Me., Whitman's new steel gear.
 Ames Plow Company, Boston, Mass., and New York, N. Y., Union railway.
 Hildreth Bros., Harvard, Mass.
 Morton Manufacturing Company, Romeo, Mich., Morton's reversible, Farmer's Friend.
 Hiram Deats, Jr., Pittstown, N. J., single and double geared, Pittstown.
 Trenton Agricultural Works (B. Gill & Son), Trenton, N. J., Peerless.
 New Jersey Agricultural Works, Trenton, N. J., Butterworth steel tread, Butterworth double pinion lever.
 P. K. Dederick & Co., Albany, N. Y.
 Schoharie County Agricultural Works (S. K. Campbell), Central Bridge, N. Y.
 Minard Harder, Cobleskill, N. Y., Fearless. See index to ads.
 St. Johnsville Agricultural Works, St. Johnsville, N. Y.
 Westinghouse Company, Schenectady, N. Y.
 The E. W. Ross Company, Springfield, O., Ross. See page 74.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

RAILWAY OR TREAD HORSE POWERS (Continued).

- J. Robison & Son, Curwensville, Pa.
 Daniel Hulshizer, Doylestown, Pa., Doylestown, Excelsior, Triumph.
 Krauss Bros., Geryville, Pa., Champion.
 Heebner & Sons, Lansdale, Pa., Heebner's level tread railway powers.
 John N. Chalfant & Sons, Lenover, Pa., Chalfant.
 Hauck & Comstock, Mechanicsburgh, Pa. See page 42.
 R. I. Schlabach, Nazareth, Pa., New Champion.
 A. Blaker & Co., Newtown, Pa., Newtown.
 W. L. Boyer & Bro., Germantown avenue and Diamond street, Philadelphia, Pa., Union.
 Ellis Keystone Agricultural Works, Pottstown, Pa.
 Lessig & Bro. Agricultural Works, Reading, Pa., Lessig's level tread.
 E. B. Marsh & Bro., Snyder'sville, Pa.
 S. S. Messinger & Son, Tatamy, Pa., Empire.
 F. P. Avery, Tunkhannock, Pa.
 A. B. Farquhar Company, Ltd., York, Pa.
 St. Albans Foundry, St. Albans, Vt.
 B. F. Rollins, St. Johnsbury, Vt., Union, Bay State.
 A. W. Gray's Sons, Middletown Springs, Vt.
 Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., Chief, Royal
 See page 90.
 Smalley Manufacturing Company, Manitowoc, Wis., New Smalley.
 Peter Fischer, Milwaukee, Wis.
 Belle City Manufacturing Company, Racine, Wis. See page 72.
 E. H. Pease Manufacturing Company, Racine, Wis. See page 69.
 J. I. Case Threshing Machine Company, Racine, Wis.
 S. Freeman & Sons Manufacturing Company, Racine, Wis.

LAWN MOWERS.

- The Hills Archimedean Lawn Mower Company, Hartford, Conn
 Borden, Selleck & Co., Chicago, Ill.
 Daisy Implement Company, Pleasant Lake, Ind., Daisy.
 F. & N. Lawn Mower Company, Richmond, Ind., F. & N.
 Wayne Works, Richmond, Ind., Quaker City.
 Blair Manufacturing Company, Springfield, Mass.
 Newhall & Stebbins, Hinsdale, N. H., Granite State.
 Chadborn & Coldwell Manufacturing Company, Newburgh, N. Y., Excelsior, New
 Model, O. K.
 A. B. Cohu Company, 197 Water street, New York, N. Y., A. B. C.
 New York Lawn Mower Company, 69 Wall street, New York, N. Y., Gem, Empress,
 Monarch hand and Empress horse.
 E. C. Stearns & Co., Syracuse, N. Y., Monarch.

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LAWN MOWERS (Continued).

Whitman & Barnes Manufacturing Company, Akron, O., Canton, O., Syracuse, N. Y., St. Catherines, Ont.
Farmers Friend Manufacturing Company, Dayton, O., Dayton. See page 20.
G. S. Foos Company, Springfield, O., Favorite, Standard, Columbia, Crescent.
Superior Machine Company, Springfield, O.
Mast, Foos & Co., Springfield, O., Buckeye, Junior and Senior.
Rogers Fence Company, Springfield, O., Superior, Splendid.
Thomas Manufacturing Company, Springfield, O., Thomas.
Graham, Emlen & Passmore, Philadelphia, Pa., Philadelphia.
John Braun & Sons, Philadelphia, Pa., Pennsylvania, Continental, Quaker City.
Supplee Hardware Company, Philadelphia, Pa., sole agents for John Braun & Sons.
Continental Lawn Mower Company, Philadelphia, Pa., Continental.
Haskins Manufacturing Company, Lake Geneva, Wis., Challenge.

LARD PRESSES.

Donaldson Bros., Mt. Clemens, Mich.
E. S. & F. Bateman, Grenloch, N. J.
Ames Plow Company, Boston, Mass., and New York, N. Y.
Hocking Valley Manufacturing Company, Lancaster, O., Hocking Valley.
Hydraulic Press Manufacturing Company, Mt. Gilead, O.
M. L. Edwards Manufacturing Company, Salem, O., Happy Thought.
P. P. Mast & Co., Springfield, O.

HUB BORING MACHINES.

Cyclone Works, De Witt, Ia., Cyclone.
H. A. Moyer, Syracuse, N. Y.
Slusser-McLean Scraper Company, Sidney, O., Champion, also Excelsior hub roughers.
Silver Manufacturing Company, Salem, O.
Ajax Manufacturing Company, Pittsburgh, Pa., Ajax wood boring. See page 49.

LAND MEASURES.

D. H. Bausman, Bausman, Pa., I. X. L.

LAND ROLLERS.

Geo. S. Grier & Son, Milford, Del.
David Bradley Manufacturing Company, Chicago, Ill.
G. D. Colton & Co., Galesburgh, Ill., Favorite.
W. Sandiford, Joliet, Ill.
Rock Island Plow Company, Rock Island, Ill.
R. M. McGrath & Son, La Fayette, Ind.
S. J. Fisher, Packerton, Ind.
Jacob Bros., Avoca, Ia., Boss.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

LAND ROLLERS (Continued).

Ames Plow Company, Boston, Mass., and New York, N. Y., field and garden.

Henry A. Currier, Almont, Mich., Currier's Patent.

George & Tweedale, Constantine, Mich.

The Castree-Mallery Company, Flint, Mich., Star, Iron, Standard.

Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich., Grand Rapids patent flexible wrought frame. See page 79.

G. W. Arnold & Son, Ionia, Mich.

A. C. Bruce, Lapeer, Mich., Premium.

Milan Agricultural Company, Milan, Mich., Iron King.

A. Bostick, Millington, Mich.

Wilder Manufacturing Company, Monroe, Mich.

Donaldson Bros., Mt. Clemens, Mich.

Otter Lake Iron Works, Otter Lake, Mich., Standard.

Mitts & Merrill, Saginaw, Mich.

F. B. Bignell, Smyrna, Mich.

J. J. Morse, Weston, Mich., Flexible.

T., R. & A. Manufacturing Company, Kansas City, Mo., wire steel.

O. J. Little, Deckerton, N. J.

Hiram Deats, Jr., Pittstown, N. J., two and three section.

Curtis Manufacturing Company, Albion, N. Y.

Champion Drill Company, Ltd., Avon, N. Y., Wiard patent.

Pitts Agricultural Works, Buffale, N. Y., Buffalo Pitts.

Henry H. Lovejoy, Cambridge, N. Y.

Patten, Stafford & Myer, Canastota, N. Y., New York Champion.

Geo. O. P. Turner, Churchville, N. Y., improved iron.

Darbee, Peek & Bro., East Aurora, N. Y.

C. Bartholomew, Etna, N. Y.

Superior Land Roller Company, Gouverneur, N. Y., Superior steel rollers, land, lawn and garden; also grass seeder attachment.

Gowanda Agricultural Works Company, Gowanda, N. Y., Gowanda.

W. Eddy & Sons, Greenwich, N. Y.

E. B. Daniels & Co., Havana, N. Y.

W. A. Mallery, Hillsdale, N. Y.

Frank Maute, Lancaster, N. Y., Lancaster.

Walker Manufacturing Company, Moravia, N. Y., Walker all steel.

Genesee Valley Manufacturing Company, Mt. Morris, N. Y., Parsons, Our Low Priced. See page 82.

Stringer, Dexter & Co., Munnsville, N. Y.

Carr & Company, 69 Wall street, New York, N. Y., cast iron.

H. N. Hubbard, 96 Chambers street, New York, N. Y., Hubbard's.

John W. Douglass, 57 Beekman street, New York, N. Y.

Hobson & Company, 4 Stone street, New York, N. Y., lawn and road rollers also.

Jno. T. Robinson, Roxbury, N. Y.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

LAND ROLLERS (Continued).

Jno. H. Dakin, 512 Liberty street, Schenectady, N. Y.
 C. Wakefield & Son, Theresa, N. Y.
 D. D. Bromley, Waterport, N. Y.
 C. S. Frost, Watkins, N. Y.
 G. Lord, Watertown, N. Y.
 F. & J. H. Culver, West Oneonta, N. Y.
 E. R. Allen & Co., Whitesville, N. Y., iron and combined wood and iron.
 Wm. Ripson & Son, Youngstown, N. Y.
 Roley & Co. (Basil Foundry), Basil, O., Farmer's Friend.
 J. W. Dunham & Son, Berea, O., Dunham.
 Gilbert Lockhart, Bryan, O., three wheels.
 Van Buren & Bitler, Carey, O., Wyandot.
 American Foundry & Machine Company, Bowling Green, O., Champion steel rim.
 H. P. Deuscher Company, Hamilton, O., McColm.
 F. B. Ogden, Republic, O., Star.
 The Ideal Plow Company, Salem, O., Ideal.
 J. H. Yingling & Bro., Seven Mile, O., combined roller and harrow.
 Critz & Co., Seville, O.
 J. Robison & Son, Curwensville, Pa.
 Daniel Hulshizer, Doylestown, Pa., Doylestown.
 Krauss Bros., Geryville, Pa.
 Sutton Bros. & Bell, Indiana, Pa., Patten.
 Snoebergers & Bassler, Martinsburgh, Pa.
 Hauck & Comstock, Mechanicsburgh, Pa. See page 42.
 Monroeton Manufacturing Company, Monroeton, Pa.
 A. Blaker & Co., Newtown, Pa., Newtown.
 Y. C. Freed & Co., Royersford, Pa.
 E. B. Marsh & Bro., Snyder'sville, Pa., Empire.
 S. S. Messinger & Son, Tatamy, Pa., steel.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa.
 Edinburgh Agricultural Works, Edinburgh, Va.
 S. R. White & Bro., Norfolk, Va., White's improved.
 Gilbert Hunt & Co., Walla Walla, Wash.
 Eagle Manufacturing Company, Appleton, Wis., Miller's patent.
 E. C. Sherwin, Brandon, Wis., Sherwin's adjustable.
 Van Brunt & Davis Company, Horicon, Wis.
 Wheel & Seeder Manufacturing Company, La Crosse, Wis., Yankee.
 Johnson & Field Company, Racine, Wis., Racine. See page 70.
 A. P. Dickey Manufacturing Company, Racine, Wis., Dickey. See page 70.
 R. N. Rasmussen, Randolph, Wis.
 Kohler, Hayssen & Stehn Manufacturing Company, Sheboygan, Wis., Miller's adjustable.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS

CUTTING APPARATUS FOR MOWERS.

W. H. H. Heydrick, Chestnut Hill, Philadelphia, Pa., Heydrick's improved.

REAPERS.

William Deering & Co., Chicago, Ill., Deering. See page 18.

McCormick Harvesting Machine Company, Chicago, Ill., McCormick.

Emerson, Talcott & Co., Rockford, Ill., Standard. See page 128.

Wayne Works, Richmond, Ind., Royce.

Clipper Machine Works, Keene, N. H., Clipper.

D. M. Osborne & Co., Auburn, N. Y., Osborne.

The Johnston Harvester Company, Batavia, N. Y., Continental, wrought iron harvester, Sweepstakes combined.

D. S. Morgan & Co., Brockport, N. Y., Triumph.

Geo. Sweet & Co., Dansville, N. Y., Royer improved.

Walter A. Wood Mowing & Reaping Machine Company, Hoosick Falls, N. Y.,
Walter A. Wood light enclosed gear. See page 180.

Adriance, Platt & Co., New York, N. Y., and Poughkeepsie, N. Y., Adriance.

Wyckoff & Co., Perry, N. Y., Perry.

Bradley & Co., Syracuse, N. Y., Bradley.

J. F. Seiberling & Co., Akron, O., Empire, single reapers, combined self rakes,
combined droppers.

Aultman, Miller & Co., Akron, O., Buckeye droppers, Buckeye table rake reapers.

Peerless Reaper Company, Canton, O., Peerless, single and combined.

Seiberling, Miller & Co., Doylestown, O., Empire.

The Warder, Bushnell & Glessner Company, Springfield, O., and Chicago, Ill.,
Champion.

Central Manufacturing Company, Lewisburgh, Pa., Bates.

BINDER COVERS.

Wm. Deering & Co., Chicago, Ill. See page 18.

Geo. B. Carpenter & Co., Chicago, Ill.

Joe Davis & Son, Flushing, Mich.

Gilbert Cover Company, Newark, N. J.

National Waterproof Fibre Company, 27 South street, New York, N. Y.

J. A. McAuley & Peters, Columbus, O.

SWATHING ATTACHMENT FOR TWINE BINDERS.

Miller & Owen, Mechanicsburgh, Pa., Owen's patent.

GRAIN BINDERS FOR BINDING AFTER REAPERS.

G. A. Singerly & Co., Norristown, Pa.

CAR PULLERS.

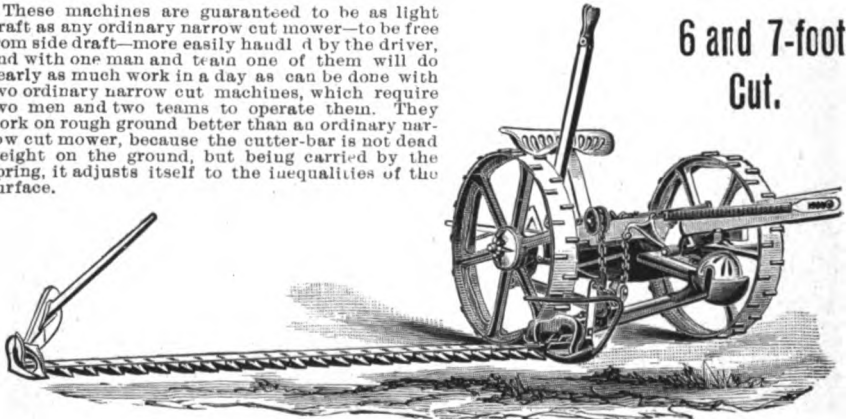
E. H. Pease Manufacturing Company, Racine, Wis., Hercules, W. G. Adams. See
page 89.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

THE "STANDARD" WIDE CUT MOWERS.

THE CLIMAX OF MECHANICAL PERFECTION.

These machines are guaranteed to be as light draft as any ordinary narrow cut mower—to be free from side draft—more easily handled by the driver, and with one man and team one of them will do nearly as much work in a day as can be done with two ordinary narrow cut machines, which require two men and two teams to operate them. They work on rough ground better than an ordinary narrow cut mower, because the cutter-bar is not dead weight on the ground, but being carried by the spring, it adjusts itself to the inequalities of the surface.



Guaranteed to Cut from 16 to 20 Acres per Day with One Man and Team.

Of the many points of superiority which our wide cut mowers have over ALL OTHER mowing machines, the most important is our

Curved Cutter Bar, Suspension Spring and Compound Lever.

By the use of these devices we are enabled to carry the weight of the whole length of the cutter bar, including its outer end, on the drive wheels, instead of dragging it over the ground, as in other machines, thereby greatly increasing the traction of the drive wheels, which increases the cutting power, and by taking the friction of the cutter bar off from the ground we prevent side draft. The cutter bar cannot sag back and get out of line, as the spring-lift chain draws from the front end of the inside shoe, and the cutter bar is thus kept always in line. This is a very important and valuable feature, and is not possessed by any other mower.

SEND FOR SPECIAL DESCRIPTIVE CIRCULAR.

—Manufactured only by—

EMERSON, TALCOTT & CO., ROCKFORD, ILL.

Manufacturers of the "STANDARD" Mowers, Reapers, Hay Rakes, Cultivators, Corn Planters, Check Rows, Etc.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

MOWERS.

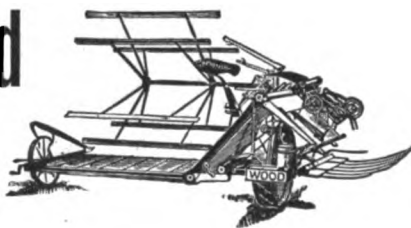
Emerson, Talcott & Co., Rockford, Ill., Standard and Smith Big 7. See page 128.
 Benicia Agricultural Works, Benicia, Cal., Benicia.
 Judson Manufacturing Company, Oakland, Cal.
 William Deering & Co., Chicago, Ill., Giant, New Deering. See page 18.
 McCormick Harvesting Machine Company, Chicago, Ill., McCormick.
 Plano Manufacturing Company, 83 W. Monroe street, Chicago, Ill., New Plano,
 Jones chain drive.
 Automatic Mower & Manufacturing Company, Chicago, Ill., Hopkins Automatic.
 Craver, Steele & Austin, Harvey, Ill., Cyclone, Steele.
 Cummings Harvester Company, Pekin, Ill., Pekin.
 Jno. P. Manny Mower Company, Rockford, Ill., Jno. P. Manny.
 Rockford Manufacturing Company, Rockford Ill.
 Sandwich Manufacturing Company, Sandwich, Ill., Argentine and Sandwich.
 Abram Ellwood, Sycamore, Ill., Knowlton.
 Wayne Works, Richmond, Ind., Quaker City.
 Daniel T. Kelly, Portland, Me.
 Richardson Manufacturing Company, Worcester, Mass., Buckeye.
 Ann Arbor Agricultural Company, Ann Arbor, Mich., Advance.
 Minneapolis Harvester Works, Minneapolis, Minn., Minneapolis.
 Dain Manufacturing Company, Carrollton, Mo., Dain center draft.
 Newhall & Stebbins, Hinsdale, N. H., Granite State.
 Clipper Machine Works, Keene, N. Y., Clipper.
 D. M. Osborne & Co., Auburn, N. Y., Osborne.
 Johnston Harvester Company, Batavia, N. Y., Mayflower for one horse, Continental
 wrought iron.
 D. S. Morgan & Co., Brockport, N. Y., Triumph.
 Rawson & Thatcher, Corning, N. Y., Boss.
 Geo. Sweet & Co., Dansville, N. Y., Dansville.
 Walter A. Wood Mowing & Reaping Machine Company, Hoosick Falls, N. Y.,
 Walter A. Wood enclosed gear. See page 130.
 A. M. Ross & Co., Ilion, N. Y.
 Adriance, Platt & Co., New York, N. Y., and Poughkeepsie, N. Y., Adriance,
 Adriance Buckeye.
 Wyckoff & Co., Perry, N. Y., Perry.
 Gordon & DeGarmo, Rochester, N. Y., Rochester.
 Bradley & Co., Syracuse, N. Y., Bradley.
 Troy Mowing Machine Company, Ltd., Troy, N. Y., Trojan.
 Eureka Mower Company, Utica, N. Y., Eureka center draft mowers.
 Aultman, Miller & Co., Akron, O., Buckeye.
 J. F. Seiberling & Co., Akron, O., Empire.
 Peerless Reaper Company, Canton, O., Peerless front and rear cut.
 Stoddard Manufacturing Company, Dayton, O., Tiger, Dayton.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

Walter A. Wood

Single-apron, Open-rear

BINDERS.



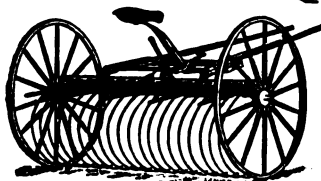
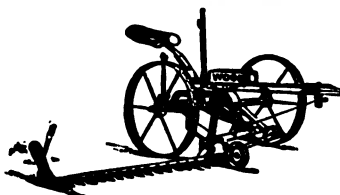
DIRECT-DRAFT

FLOATING-BAR

MOWERS.

Self and Hand Dump

HAY RAKES.



Changeable Thills.

DEALER

Even in originating new machines, Mr. Wood clings to the **sound principles** that give not only the best work but the least trouble. His machines unfailingly win at field trials and expositions. They sell easily. They are readily settled for. They give **permanent** satisfaction to the farmer. Beware of machines which contain objectionable contrivances merely put on to catch trade. Such machines and their manufacturers are liable to suddenly disappear from market and leave people in the lurch for extras. The Walter A. Wood business has been growing irresistibly for thirty-nine years on wholesome principles; and it is worthy your attention. Dealers who can push the **healthy sale of our goods** are invited to send for our printed matter and to open correspondence with us for particulars regarding agencies.



WALTER A. WOOD

Mowing and Reaping Machine Company,

HOOSICK FALLS, N. Y.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

MOWERS (Continued).

- Seiberling, Miller & Co., Doylestown, O., Empire.
- Pilmer Bros., Homeworth, O., Lee's No. 2, Homeworth.
- Hoover & Gamble, Miamisburgh, O., Excelsior.
- The Warder, Bushnell & Glessner Company, Springfield, O., and Chicago, Ill., Champion.
- Amos Whiteley & Co., Springfield, O., Whiteley.
- Central Manufacturing Company, Lewisburgh, Pa., New Buckeye.
- R. I. Schlabach, Nazareth, Pa., Victor.
- W. H. H. Heydrick, Chestnut Hill., Philadelphia, Pa., screw.
- S. S. Messinger & Son, Tatamy, Pa., Empire.
- J. Thompson & Sons, Ltd., Beloit, Wis., Thompson-Manny chain power. See page 102.
- Janesville Machine Company, Janesville, Wis., Crown. See page 44.
- Fuller & Johnson Manufacturing Company, Madison, Wis., Red, White and Blue
- Milwaukee Harvester Company, Milwaukee, Wis., Milwaukee chain, Milwaukee gear.
- Esterly Harvesting Machine Company, Whitewater, Wis., Esterly enclosed gear.
- Winchester & Partridge Manufacturing Company, Whitewater, Wis., Whitewater, Elward center draft.

TWINE BINDING HARVESTERS.

- William Deering & Co., Chicago, Ill., Deering Junior. See page 18.
- Plano Manufacturing Company, 83 W. Monroe street, Chicago, Ill., Light Running Plano.
- McCormick Harvesting Machine Company, Chicago, Ill., McCormick.
- Emerson, Talcott & Co., Rockford, Ill. See page 128.
- Sandwich Manufacturing Company, Sandwich, Ill., Reliance.
- Minneapolis Harvester Works, Minneapolis, Minn., Minneapolis steel.
- D. M. Osborne & Co., Auburn, N. Y., Osborne Junior steel frame.
- Johnston Harvester Company, Batavia, N. Y., Continental.
- D. S. Morgan & Co., Brockport, N. Y., Triumph, No. 7 wood frame, No. 8 steel frame.
- Walter A. Wood Mowing & Reaping Machine Company, Hoosick Falls, N. Y., Walter A. Wood single apron. See page 180.
- Adriance, Platt & Co., New York, N. Y., and Poughkeepsie, N. Y., Adriance.
- Wyckoff & Co., Perry, N. Y., Perry.
- J. F. Seiberling & Co., Akron, O., Empire.
- Aultman, Miller & Co., Akron, O., Buckeye elevator and down binders.
- Peerless Reaper Company, Canton, O., Peerless.
- Seiberling, Miller & Co., Doylestown, O., Empire.
- Hoover & Gamble, Miamisburgh, O., Excelsior.
- The Warder, Bushnell & Glessner Company, Springfield, O., and Chicago, Ill., Champion.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

TWINE BINDING HARVESTERS' (Continued).

Amos Whiteley & Co., Springfield, O.
 Milwaukee Harvester Company, Milwaukee, Wis., Milwaukee Junior.
 Esterly Harvesting Machine Company, Whitewater, Wis., Esterly.

HEADERS.

Benicia Agricultural Works, Benicia, Cal., Benicia.
 Jno. Caine, Stockton, Cal.
 Craver, Steele & Austin, Harvey, Ill., Randolph.
 Acme Harvester Company, Pekin, Ill., Hodges.
 Cummings Harvester Company, Pekin, Ill., Pekin.

MOWER AND REAPER KNIVES, SICKLES, SECTIONS, ETC.

Jerome S. Davis (Eagle Knife Works), Spencer, N. Y., mowing machine sections.
 Whitman & Barnes Manufacturing Company, Akron, O., Canton, O., Syracuse, N. Y., St. Catharines, Ont.

MOWER KNIFE AND SICKLE GRINDERS.

Higganum Manufacturing Corporation, Higganum, Conn., Dutton's Clipper.
 Daisy Implement Company, Pleasant Lake, Ind., Daisy.
 Jos. W. Pratt, Westville, N. J., Poulson's Perfect.
 Ajax Manufacturing Company, Pittsburgh, Pa., Vulcan. See page 48.
 Racine Malleable & Wrought Iron Company, Racine, Wis., Boss and Racine. } See index to ads.

BINDER TRUCKS.

Wm. Deering & Co., Chicago, Ill. See page 18.
 Plano Manufacturing Company, 83 W. Monroe street, Chicago, Ill., Plano Rustler.
 D. S. Morgan & Co., Brockport, N. Y., Triumph.
 Ohio Rake Company, Dayton, O., Little Giant.
 H. C. Hunt & Co., Miamisburgh, O., Smith.

MACHINE KEYS.

Sandwich Manufacturing Company, Sandwich, Ill.
 Whitman & Barnes Manufacturing Company, Akron, O., Canton, O., Syracuse, N. Y., and St. Catharines, Ont.

CASTINGS.

Novelty Iron Works, Dubuque, Ia. See index to ads.
 G. W. Arnold & Son, Ionia, Mich.
 Anderson Bros., Moorhead, Minn.
 Stevenson Bros. & Co., St. Cloud, Minn.
 Gowanda Agricultural Works Company, Gowanda, N. Y.
 Gardner Foundry Company, Lockport, N. Y.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

CASTINGS (Continued).

John W. Douglass, 57 Beekman street, New York, N. Y.
 Watkins Chilled Plow Company, Watkins, N. Y.
 C. M. Thompson, Lexington, N. C., all kinds.
 Edgecombe Agricultural Works, Tarboro, N. C., plow.
 Van Buren & Bitler, Carey, O.
 Jas. L. Haven Company, Cincinnati, O.
 Toledo Plow Company, Toledo, O.
 Livermore Foundry & Machine Company, Memphis, Tenn.
 Milburn Gin & Machine Company, Memphis, Tenn.
 St. Albans Foundry, St. Albans, Vt.
 Vermont Snath Company, Springfield, Vt.
 Wrenn, Whitehurst & Co., Norfolk, Va.
 Watt Plow Company, Richmond, Va., plow.
 Hugh F. Lyle & Co., Vesuvius, Va.
 Foster & Williams, Racine, Wis., all kinds. See page 85.
 Hurlbut Manufacturing Company, Racine, Wis., all kinds. See page 108.

GRAY IRON CASTINGS.

Stover Manufacturing Company, Freeport, Ill.
 Novelty Iron Works, Dubuque, Ia. See index to ads.
 H. B. Wells, Ithaca, Mich.
 H. N. Hubbard, 96 Chambers street, New York, N. Y.
 The A. W. Coates & Company, Alliance, O.
 James L. Haven Company, Cincinnati, O.
 F. B. Ogden, Republic, O.
 Foster & Williams, Racine, Wis. See page 85.
 Hurlbut Manufacturing Company, Racine, Wis. See page 108.
 Racine Malleable & Wrought Iron Company, Racine, Wis. See index to ads.

MALLEABLE IRON CASTINGS.

Jas. L. Haven Company, Cincinnati, O.
 Buckeye Malleable Iron Company, Columbus, O.
 Dayton Malleable Iron Company, Dayton, O.
 Racine Malleable & Wrought Iron Company, Racine, Wis. See index to ads.

SPRINGS FOR AGRICULTURAL IMPLEMENTS.

Morgan Spring Company, Worcester, Mass.
 Harrow Spring Company, Kalamazoo, Mich.
 Kalamazoo Spring & Axle Company, Kalamazoo, Mich.

WOOD WHEELS FOR IMPLEMENTS.

Niles & Scott Company, La Porte, Ind.
 Turnbull Wagon Company, Defiance, O.

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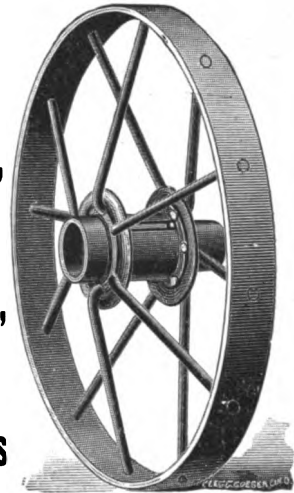
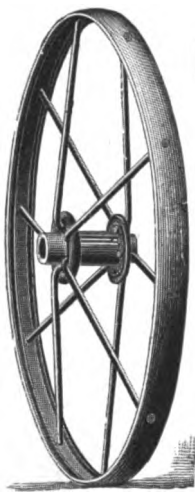
METAL WHEELS

—FOR—

Hay Presses,
Cultivators,
Plows, Trucks,
Binders,
Traction Engines,
Hay Stackers,
Portable Engines,
Wheelbarrows,
Corn Planters

AND

All kinds of Agricultural Implements.



The Howell Whool Co.
Covington, Ky.

METAL WHEELS FOR IMPLEMENTS.

Peru Plow & Wheel Company, Peru, Ill.

Frenier Metal Wheel Company, Bushnell, Ill.

Quincy Metal Wheel Company, Quincy, Ill.

Niles & Scott Company, La Porte, Ind.

Bettendorf Metal Wheel Company, Davenport, Ia.

Howell Wheel Company, Covington, Ky., Howell's patent suspension iron and steel. See ad. above.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.



Wherry Mole Trap!

U. S. Patent Nov. 20, '88.
Canadian Patent Dec. 5,
1888.

This trap is the only reliable Mole Trap made, and if properly set will catch them every time.

Dealers will find it to their interest to write for special prices to the trade.

**W. N. WHERRY, Manufacturer,
PLYMOUTH, MICH.**

MOLE TRAPS.

W. N. Wherry, Plymouth, Mich., Wherry. See ad. above.

H. W. Hales, Ridgewood, N. J.

MANURE SPREADERS.

Richardson Manufacturing Company, Worcester, Mass., Kemp.

Empire Spreader Company, Phoenix, N. Y.

Kemp & Burpee Manufacturing Company, Syracuse, N. Y., Kemp.

Newark Machine Company, Columbus, O., Victor.

B. F. Rollins, St. Johnsbury, Vt., Kemp.

MARKERS AND FURROWERS.

O. W. Goslee, Buckingham, Conn.

Thomas Peppler, Hightstown, N. J., Riggs improved.

H. W. Doughten, Moorestown, N. J., Darnell's patent.

Hiram Deats, Jr., Pittstown, N. J.

W. Eddy & Sons, Greenwich, N. Y., Rough and Ready.

W. A. Mallery, Hillsdale, N. Y.

Frank Maute, Lancaster, N. Y., Lancaster.

John Ruth, Marilla, N. Y., Champion potato furrower and coverer.

Baker & Shevlin, Schuylerville, N. Y., Baker-Shevlin.

A. Blaker & Co., Newtown, Pa.

S. L. Allen & Co., 1107 Market street, Philadelphia, Pa.

WHIFFLETREES.

J. H. Arnold & Son, Lyons, Mich.

Thomas Elliot, Tecumseh, Mich., three horse whiffletrees.

Frank D. Hall, Gowanda, N. Y.

F. R. Willson, Columbus, O., Willson patent spring.

Knapp & Sturdevant, North Kingsville, O.

Racine Hardware Manufacturing Company, Racine, Wis., also Racine whiffletree hooks.

Racine Malleable & Wrought Iron Company, Racine, Wis. See index to ads.

T. G. Mandt, Stoughton, Wis., Crescent hooks.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.



Moline Plow Co.

MOLINE, ILL.

MAKERS OF THE CELEBRATED

FLYING DUTCHMAN

SULKY PLOW,

Moline Champion Corn Planter,

Dandy Combined Cultivator,

Scotch Clipper Plows,

Steel Pipe Lever Harrows,

—AND ALL AGRICULTURAL IMPLEMENTS.—

OUR DECLARATION.

We make the best Sulky Plow, the best Corn Planter, the best Riding and Walking Cultivator, the best Old Ground Plows and the best Lever Harrow on earth. We are willing to divide honors with other good makers on other goods, but the above stands. We invite your correspondence for ourselves or our branches.

MOLINE PLOW COMPANY,	-	-	Kansas City, Mo.
MOLINE, MILBURN & STODDARD CO.,	-	-	Minneapolis, Minn.
MOLINE, MILBURN & STODDARD CO.,	-	-	Omaha, Neb.
MOLINE, MILBURN & STODDARD CO.,	-	-	Des Moines, Ia.

MOLINE PLOW CO.
MOLINE, ILL.
 TRADE MARK

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

WALKING PLOWS.

- Benicia Agricultural Works, Benicia, Cal., vineyard plows, Benicia Rose.
 The Collins Company, Collinsville, Conn.
 Hagganum Manufacturing Corporation, Higganum, Conn., Silver Eagle, Charter Oak.
 Lee Bros., Watertown, S. Dak., Watertown.
 Geo. S. Grier & Son, Milford, Del.
 R. A. Johnson & Co., Atlanta, Ga., Johnson combination.
 Southern Agricultural Works, Atlanta, Ga., wood and steel beam, black and sandy land, Gate City Clipper.
 W. T. Stapler, Harmony Grove, Ga.
 La Grange Plow Works, La Grange, Ga., Gammill.
 Towers & Sullivan Manufacturing Company, Rome, Ga., steel and cast.
 J. & D. Mellen, Alton, Ill.
 Hapgood Plow Company, Alton, Ill., all kinds. See page 143.
 Odum Bros., Benton, Ill. (local trade).
 Abraham Brookaw, Bloomington, Ill.
 Parlin & Orendorff Company, Canton, Ill., Canton Clipper, all kinds.
 Star Manufacturing Company, Carpentersville, Ill., Star.
 David Bradley Manufacturing Company, Chicago, Ill., all styles, steel and chilled.
 Grand Detour Plow Company, Dixon, Ill.
 Sarah M. Adams, Galena, Ill., Adams, Galena.
 Moline Plow Company, Moline, Ill., Moline Clipper, Scotch Clipper, Empress, Ohio River, Sub soil, Side Hill, Famous Pony, Texas Black and Sandy Land. See page 136.
 Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia.
 Deere & Co., Moline, Ill., all sizes and styles of John Deere plows. See page 139.
 Branch houses—John Deere Plow Company, Kansas City, Mo., Deere, Wells & Co., Council Bluffs, Ia., Deere & Co., Minneapolis, Minn., Deere Implement Company, San Francisco, Cal., H. H. Sickels & Co., Des Moines, Ia., The Spencer & Lehman Company, Decatur, Ill.
 Weir Plow Company, Monmouth, Ill., all styles, steel and chilled.
 Strauss & Goetsch, Naperville, Ill., Jones.
 William Colwell (Ottawa Plow Works), Ottawa, Ill.
 Pekin Plow Company, Pekin, Ill., all styles.
 Millikin, Cisle & Co., Peoria, Ill., Hamilton, Peoria.
 R. C. Buckley, Peoria, Ill., Buckley Clipper.
 Peru Plow & Wheel Company, Peru, Ill.
 E. C. Eaton, Pinckneyville, Ill., Eaton's.
 Collins Plow Company, Quincy, Ill., Collins. See page 115.
 Skandia Plow Company, Rockford, Ill., Skandia.
 Rockford Manufacturing Company, Rockford, Ill.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

WALKING PLOWS (Continued).

Rockford Plow Company, Rockford, Ill., Skinner.

Rock Island Plow Company, Rock Island, Ill., all styles steel, combination and chilled plows, Clipper, turf and stubble, Governor, Rock Island, Black Land Clipper, Dixie Clipper.

Sandoval Manufacturing Company, Sandoval, Ill.

W. B. Sturgis, Shelbyville, Ill.

F. R. Crothers, Sparta, Ill.

Sattley Manufacturing Company, Springfield, Ill., Sattley. See page 141.

Cress Bros. & Co., Warsaw, Ill., Warsaw.

Oldendorph Bros., Waterloo, Ill., iron beam.

Seward Company, Bloomington, Ind., Seward steel.

Heilman Plow Company, Evansville, Ind., Urie Clipper, O. K., Rose Clipper steel plows, Vulcan chilled plows.

Henry F. Blount, Evansville, Ind., True Blue, Royal Beauty.

Roelker Plow Company, Evansville, Ind., Famous, Hoosier, all styles, wood beam, new ground.

St. Joseph Manufacturing Company, Mishawaka, Ind., steel plows, Mishawaka Clipper, Mishawaka Scotchman, Emperor, chilled plows, Mishawaka.

Wm. J. Adams, Muncie, Ind.

Wm. Clore's Sons, Rising Sun, Ind., cotton plows, Calhoun and Hoffman, Cane and I. X. L., new ground.

Economist Plow Company, South Bend, Ind., Economist, all styles.

South Bend Iron Works (Oliver Chilled Plow Works), South Bend, Ind., Oliver's, all styles chilled and steel.

South Bend Chilled Plow Company, South Bend, Ind., all styles South Bend chilled and steel, Modern Marvel combination plows.

Bissell Chilled Plow Works, South Bend, Ind., Bissell's Improved, all kinds.

J. H. Wagner & Co., Vernon, Ind., Climax steel, Vernon chilled.

Charles City Manufacturing Company, Charles City, Ia., Daisy, Standard.

Eagle Manufacturing Company, Davenport, Ia.

Norwegian Plow Company, Dubuque, Ia., all styles. See index to ads.

Morrison Manufacturing Company, Ft. Madison, Ia., Morrison, Texas black land.

Cass & McArthur, Harlan, Ia.

A. Strawn, Murray, Ia., Murray-Clipper.

Sioux City Plow Company, Sioux City, Ia., Clipper.

Christoph Wilharm, Tripoli, Ia.

V. C. Hainline, Levee, Ky.

B. F. Avery & Sons, Louisville, Ky., all kinds.

Brinly, Miles & Hardy Company, Louisville, Ky., Brinly's Universal steel beam and hillside.

Thos. Meikle & Co., Louisville, Ky., Black Prince, North Star.

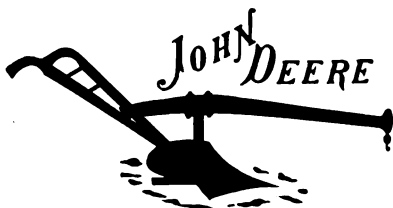
Ball, Mitchel & Co., Maysville, Ky., Banner steel.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

Deere & Company,

Manufacturers of

THE CELEBRATED

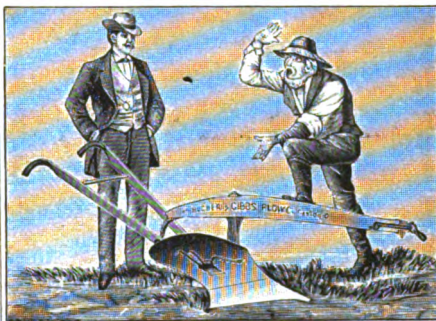


Cultivators, etc.

The Largest Plow Factory
IN THE WORLD.

MOLINE, ILLINOIS.

"I TELL YOU SIR,
THE IMPERIAL IS
THE BEST PLOW IN THE WORLD."



MANUFACTURED IN STEEL FOR LOAM
AND PRAIRIE, CHILLED FOR SANDY LAND,
COMBINATION FOR MIXED SOILS:.....

THE BUCHER & GIBBS PLOW CO.
CANTON, OHIO.

WALKING PLOWS (Continued).

The James H. Hall Plow Company, Maysville, Ky.

T. C. Clark, Russellville, Ky.

Timothy B. Hussey, North Berwick, Me., Hussey hard metal, Hussey steel.

J. V. Varney Plow Company, North Berwick, Me., Aaron Varney, New Clipper,
Dirigo, iron and steel.

Dunn Edge Tool Company, Oakland, Me.

Daniel T. Kelly, Portland, Me.

Silas Goddard & Son, South Durham, Me.

F. C. Merrill, South Paris, Me., O. K. level land plows, Harris plows.

Roland Plow Works, Baltimore, Md., Roland chilled plow.

Evan Davis & Son, Butler, Md., Highland, Whiley, Woodcock.

G. W. Seylar, Hancock, Md., Seylar.

Ames Plow Company, Boston, Mass., and New York, N. Y., Eagle, Boston Clipper
Eagle Telegraph, Martin's Eagle, Prouty & Mears.

Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., National,
Lion, Armsby, Conical, also Yankee and Oneonta Clipper reversible.

Taylor & Gale, Chicopee Falls, Mass., Doe's.

Gale Manufacturing Company, Albion, Mich., steel, iron or wood beam, chilled,
combination and steel, right or left hand.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

WALKING PLOWS (Continued).

Henry A. Currier, Almont, Mich.
Ann Arbor Agricultural Company, Ann Arbor, Mich., Advance.
Cumming & Bond, Applegate, Mich., Huntington, Queen of the West.
George Fair, Blaine, Mich.
Frank L. Woodward, Clinton, Mich., Woodward's chilled steel and combination plows.
George & Tweedale, Constantine, Mich., center draft chilled.
R. Sleeth, Fargo, Mich.
Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich., Grand Rapids No. 14. See page 79.
F. N. Wright & Co., Greenville, Mich., cast, chilled and steel plows.
H. G. Chamberlin & Co., Hudson, Mich., chilled and steel.
G. W. Arnold & Son, Ionia, Mich., Ionia and Curtis.
H. B. Wells, Ithaca, Mich.
Lawrence & Chapin Company, Kalamazoo, Mich., Diamond, iron and chilled. See page 98.
E. Bement & Sons, Lansing, Mich., Bement steel and chilled.
A. H. Richards, Mendon, Mich.
A. Bostick, Millington, Mich., Clipper.
Wilder Manufacturing Company, Monroe, Mich.
Donaldson Bros., Mt. Clemens, Mich., steel and wood beam, Peerless, Scotch, Curtis, Clipper, Remington.
Otter Lake Iron Works (Blackinton & Till), Otter Lake, Mich., Curtis.
Miller & Fernwood, Richmond, Mich., Wilkinson, Miller, Curtis, Huntington.
Mitts & Merrill, Saginaw, Mich.
F. B. Bignell, Smyrna, Mich.
Johnson & Smith, Austin, Minn.
Carver Manufacturing Company, Carver, Minn., Carver.
Clayton Plow Works Company, Minneapolis, Minn.
Eggen Bros., Rushford, Minn., steel and wood beam.
Stevenson Bros. & Co., St. Cloud, Minn.
Mast, Buford & Burwell Company, St. Paul, Minn.
St. Paul Plow Works, St. Paul, Minn., Norway Clipper.
Winona Plow Company, Winona, Minn., V series, Triumph, Faultless, Scott's Own.
A. K. Wadley, Arkabutla, Miss.
T. J. Spencer, Hernando, Miss.
Pearl River Foundry & Agricultural Works (Chas. Williams, prop.), Jackson, Miss.
A. H. Kirkland, Jackson, Miss., Champion, Clipper.
H. Wedepohl, Berger, Mo.
Columbia Wagon Company, Columbia, Mo.
Lang & Bro., Farmington, Mo.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

Sattley Mfg. Co.,

Manufacturers of

WALKING PLOWS, Sulky Plows, Cultivators,

WOOD AND STEEL,

Lever Harrows,

The Capital City Straw Stacker, and Johnson's Adjustable Box Buggy Pole.

SPRINGFIELD, . . . ILLINOIS.

Write us for Catalogue and Prices of Some Goods which will make you money and build up your trade.

WALKING PLOWS (Continued).

H. M. Godfrey, Jonesburg, Mo.

Marvin Mills, Memphis, Mo.

Parks Plow Company, New Madrid, Mo.

St. Joseph Plow Company, St. Joseph, Mo., wood and steel beam.

Lansche & Korth, Truxton, Mo.

Geo. F. Kregel, Nebraska City, Neb., Nebraska City.

Wm. P. Ford & Co., Concord, N. H., Doe's Diamond, Furrow, Ford.

W. N. Patterson & Son, Wilton, N. H. (local trade).

O. J. Little, Deckertown, N. J., Sussex chilled.

Hiram Deats, Jr., Pittstown, N. J., Bull.

W. W. Packer & Son, Saddle River, N. J., Adamant.

Risedorph Agricultural Works, Albany, N. Y.

Curtis Manufacturing Company, Albion, N. Y., Curtis.

Charles E. Buckley, Amenia Union, N. Y., Excelsior, Buckley chilled.

Wiard Plow Company, Batavia, N. Y., chilled and steel, Wiard patent flat land.

I. S. Matthews' Sons, Binghamton, N. Y., Blatchley L.

Henry H. Lovejoy, Cambridge, N. Y.

Robinson Chilled Plow Company, Canandaigua, N. Y., Robinson, all sizes.

E. Q. Dutton, Cato, N. Y., Dutton iron and wood beam.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

WALKING PLOWS (Continued).

W. G. Graves, Champlain, N. Y., I. X. L., Champlain.
 Columbia Plow Works, Copake Iron Works, N. Y., Columbia chilled plows
 Darbee, Peek & Bro., East Aurora, N. Y., Aurora steel.
 Clipper Chilled Plow Company, Elmira, N. Y.
 George H. Snyder, Ghent, N. Y., Diamond G.
 Gowanda Agricultural Works Company, Gowanda, N. Y., Gowanda steel.
 W. Eddy & Sons, Greenwich, N. Y., Rough and Ready, No. 4 steel, steel reversible level land plow.
 Wm. A. Mallery, Hillsdale, N. Y., Hillsdale.
 A. M. Ross & Co., Ilion, N. Y., New Remington Clipper.
 Reynolds & Lang, Ithaca, N. Y., Ithaca No. 1, Penn Yan medium No. 2, Penn Yan Improved, Star No. 6, chilled.
 Frank Maute, Lancaster, N. Y., Lancaster.
 Gardner Foundry Company, Lockport, N. Y.
 Alex. R. Gebbie, Lowville, N. Y., Deer River, Copenhagen.
 Delaware County Iron Works (James Chamberlin, prop.), Margaretville, N. Y.
 Stringer, Dexter & Co., Munnsville, N. Y., Oneida Valley Clipper.
 Carr & Company, 69 Wall street, New York, N. Y., Eagle cast iron, New Model steel.
 John W. Douglass, 54 Beekman street, New York, N. Y., U. S. steel beam.
 Hobson & Co., 4 Stone street, New York, N. Y., cast iron and steel.
 John Moore's Son, 193 Front street, New York, N. Y.
 Phelps Chilled Plow Works, Phelps, N. Y., steel and chilled.
 John T. Robinson, Roxbury, N. Y., Robinson's reversible, Clipper.
 W. A. Cowley & Son, Stamford, N. Y., Seymour, Cowley's reversible and Peekskill No. 19.
 Syracuse Chilled Plow Company, Syracuse, N. Y., Syracuse, right and left hand, steel, iron and wood beam, all sizes.
 C. Wakefield & Son, Theresa, N. Y., Indian River Clipper.
 Chas. H. Childs & Co., Utica, N. Y., Childs.
 J. S. & M. Peckham, Utica, N. Y.
 D. D. Bromley, Waterport, N. Y., Waterport chilled.
 G. Lord, Watertown, N. Y., Lord's cast steel.
 C. S. Frost, Watkins, N. Y.
 Watkins Chilled Plow Company, Watkins, N. Y.
 E. R. Allen & Co., Whitesville, N. Y., Robinson chilled, No. 22.
 William Ripson & Son, Youngstown, N. Y., Victor.
 North Carolina Plow Company, Cary, N. C., Harrison cultivator.
 C. M. Thompson, Lexington, N. C., Thompson.
 Edgcombe Agricultural Works, Tarborough, N. C.
 Bryan Plow Company, Bryan, O.
 Shunk Plow Company, Bucyrus, O., Shunk's New Model.

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What is it?



Write for legend of
this "Wonderful Bird,"
discovered at Alton.
Live Agents Wanted.

The Latest and Best.

If your competitor has got you down,
secure the agency for our

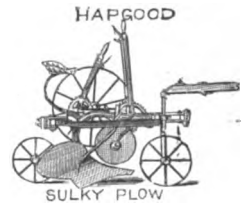
NEW WONDER

And capture the trade with

Profit and Fun Combined.

Address

It is the Name of the



So was this Wonder dis-
covered at

HAPGOOD PLOW CO., - Alton, Ill.

WALKING PLOWS (Continued).

- Bucher & Gibbs Plow Company, Canton, O., Imperial. See page 139.
Princess Plow Company, Canton, O., Princess, Prairie Clipper.
A. J. Gunter & Co. (Cincinnati Plow & Bellows Works), Cincinnati, O., Raymond,
Hilsinger, Excelsior.
Empire Plow Company, Cleveland, O.
Smith, Amann & Co. (Columbus Plow Works), Columbus, O.,
Parrott Manufacturing Company, Dayton, O., Aughe cast steel.
Cast Steel Plow Company, Dayton, O., I. X. L.
D. P. Emrick & Co., Germantown, O., Superior.
P. Burns & Co., Hamilton, O.
Motherwell Iron & Steel Company, Logan, O.
Mt. Vernon Plow Works (E. L. Black, prop.), Mt. Vernon, O., Monitor, Hillside.
J. F. Lanfersieck & Co., New Bremen, O., New Bremen, Lanfersieck, gopher, Lan-
fersieck's combination.
Fairfield Plow Works, North Fairfield, O., Fairfield, chilled and steel.
W. M. Toy, Sydney, O., Toy's cast steel.
Toledo Plow Company, Toledo, O., Burch, Toledo.
Geo. E. Bechtolt, Urbana, O., Excelsior.
R. Jones, Waynesburgh, O., New Climax, Sweepstakes.
Wm. M. Johnson, Wilmot, O., Eagle and Long.
Universal Plow Company, Wooster, O., Universal.
Columbia Agricultural Works, Columbia, Pa.
J. Robison & Son, Curwensville, Pa.
George Wagner, Effort, Pa., Champion, Centennial.
Hamburgh Plow Works (Loose, Seaman & Co.), Hamburgh, Pa.
Shoebergers & Bassler, Martinsburgh, Pa.
Monreoton Manufacturing Company, Monroeton, Pa.
R. I. Schlabach, Nazareth, Pa., Monitor, Excelsior.
Keystone Plow Company, Ltd., New Castle, Pa., Keystone.
Spratt, Johnson & Co., Pittsburgh, Pa.
A. Speer & Sons (Globe Plow Works), Pittsburgh, Pa.

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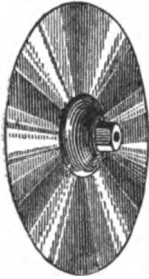
WALKING PLOWS (Continued).

- Novelty Iron Works (Throop & Huber), Priceburg, Pa.
 E. B. Marsh & Bro., Snydersville, Pa., Champion.
 S. S. Messinger & Son, Tatamy, Pa., Keystone chilled.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa., Farquhar's.
 Lee Bros., Watertown, S. Dak., Watertown.
 Chattanooga Plow Company, Chattanooga, Tenn.
 Hoppes & Edwards, Erin, Tenn.
 W. A. Maloney, Telford, Tenn., Sunny South.
 F. W. Schuerenberg, Brenham, Tex.
 G. A. Kelly Manufacturing Company, Kellyville, Tex., Pony, Black Land.
 Longview Kelly Plow Company, Longview, Tex.
 J. W. Murkland, Barton, Vt.
 Barrows & Sargent, Castleton, Vt., Nos. 2, 4, 9.
 St. Albans Foundry, St. Albans, Vt.
 Vermont Snath Company, Springfield, Vt.
 Wm. H. May & Son, Alexandria, Vt., May's Crystal Commins, Minor and Horton.
 A. J. Zink & Son, Christianburgh, Va.
 Edinburgh Agricultural Works, Edinburgh, Va., Edinburgh.
 Look & Lincoln, Marion, Va.
 C. Billups, Son & Company, Norfolk, Va., Billups Champion, Granger, Climax cotton and tobacco cultivating plow, New Era.
 S. R. White & Bro., Norfolk, Va., all kinds and sizes of chilled, steel and cast plows; Atlas, Stonewall, Carolina, Daisy, Farmer's Friend.
 Wrenn, Whitehurst & Co., Norfolk, Va., Boss, Boss chilled, Gem cotton, Old Style, Export.
 Watt Plow Company, Richmond, Va., Watt cast and chilled, Crown, Crescent.
 H. O. Kerns, Sutherlin, Va., Cook's subsoil, Success.
 Vesuvius Plow Works (Hugh F. Lyle & Co.), Vesuvius, Va., Virginia chilled, Livingston, hillside.
 Ronceverte Machine & Foundry Company, Ronceverte, W. Va.
 A. Hamacek & Co., Ahnapee, Wis., Ahnapee.
 Gesley Bros. Manufacturing Company, Beloit, Wis., Beloit.
 J. Thompson & Sons, Ltd., Beloit, Wis., Genuine Norwegian, Blue Jacket, clay land plows, chilled and steel. See page 102.
 Geo. M. Pierce, Brodhead, Wis.
 L. O. Amondson, Gratiot, Wis.
 La Crosse Plow Works (A. Hirshheimer, prop.), La Crosse, Wis., La Crosse.
 Crisler Bros. & Co., Lodi, Wis.
 Fuller & Johnson Manufacturing Company, Madison, Wis., full line.
 I. B. Rowell & Co., Menomonee Falls, Wis., Clipper, Peekskill.
 W. F. Wyman, Oshkosh, Wis.

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To Coulter Dealers
And Plow Factories.

SANDOVAL MFC. CO.
Sandoval, Ill.



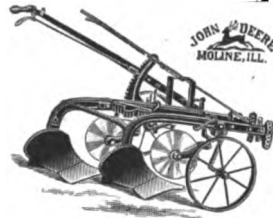
Manufacturers of
Crucible Cast Steel
COULTER
BLADES

SOLD IN JOB LOTS ONLY.

WRITE US FOR PRICES. WE MAKE NOTHING
BUT FIRST CLASS GOODS.

Deere & Co.,
MOLINE, ILL.

MANUFACTURERS OF THE
CELEBRATED



New Deal Gang Plows.

Most Popular in Use.

Largest manufacturers
of plows in the world.

WALKING PLOWS (Continued).

H. J. Benson, Prairie du Chien, Wis.

J. I. Case Plow Works, Racine, Wis., center draft Racine, steel, chilled and combination.

Kohler, Hayssen & Stehn Manufacturing Company, Sheboygan, Wis., Improved Lord.

B. H. & J. Sanford, Sheboygan Falls, Wis.

SUBSOIL PLOWS.

Ames Plow Company, Boston, Mass.

Phelps Chilled Plow Works, Phelps, N. Y.

GANG PLOWS.

Benicia Agricultural Works, Benicia, Cal., Eureka, Granger and Peerless.

Fosmir Iron Works, Los Angeles, Cal., Fosmir.

Rice's Engine Works, 56 Bluxome street, San Francisco, Cal., Myers.

Matteson & Williamson Manufacturing Company, Stockton, Cal., Stockton.

Stockton Combined Harvester & Agricultural Works, Stockton, Cal.

Hapgood Plow Company, Alton, Ill., Old Reliable. See page 143.

Parlin & Orendorff Company, Canton, Ill., Tricycle, three wheel gang.

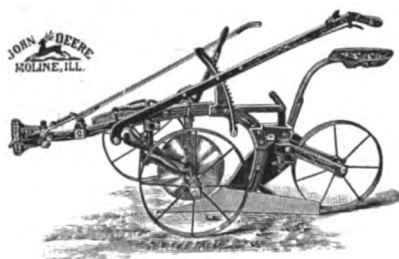
David Bradley Manufacturing Company, Chicago, Ill., Square Corner.

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DEERE & CO.

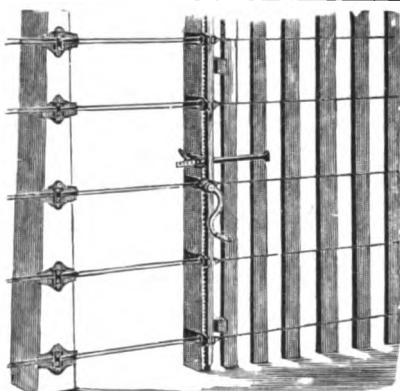
MOLINE, ILL.

MANUFACTURERS OF—



New Deal Wheeled Walking Plows.

LARGEST PLOW AND CULTIVATOR MANUFACTORY IN THE WORLD.



The time is rapidly approaching and is already at hand in many parts of our country when all dealers in agricultural implements will carry a stock of fence machines, the same as any other popular farming implement. The Garrett Fence Machine has now been sold into every state and territory in the U. S. and also in many of the foreign countries, and is commended and sought for by the farmers everywhere. One agent writes: "I have taken 35 orders for Fence Machines in three months and I do not think I will have any trouble in selling fifty this season." Active agents everywhere are doing well. Implement dealers should write at once and secure the agency for this machine. Very liberal terms. Address the patentee and manufacturer,

S. H. GARRETT, - Mansfield, Ohio.

GANG PLOWS (Continued).

Grand Detour Plow Company, Dixon, Ill.

Deere & Co., Moline, Ill., New Deal, Deere steam gang plows. See page 145.

Branch houses—John Deere Plow Company, Kansas City, Mo., Deere, Wells & Co., Council Bluffs, Ia., Deere & Co., Minneapolis, Minn., Deere Implement Company, San Francisco, Cal., H. H. Sickels & Co., Des Moines, Ia., The Spencer & Lehman Company, Decatur, Ill.

Moline Plow Company, Moline, Ill., Flying dutchman. See page 136.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., Des Moines, Ia.

Weir Plow Company, Monmouth, Ill.

Pekin Plow Company, Pekin, Ill., Headlight.

Collins Plow Company, Quincy, Ill. See page 115.

Skandia Plow Company, Rockford, Ill., New Wonder, Monarch.

Rock Island Plow Company, Rock Island, Ill., Eli, wheelless gang.

Elkhart Plow Sulky & Iron Company, Elkhart, Ind.

Economist Plow Company, South Bend, Ind., Solid Comfort.

South Bend Iron Works (Oliver Chilled Plow Works), South Bend, Ind., Oliver Jr. and Casaday wheel riding, Bonanza walking.

Norwegian Plow Company, Dubuque, Ia. See index to ads.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

GANG PLOWS (Continued).

St. Paul Plow Works, St. Paul, Minn., Pirate.

Thomas Peppler, Hightstown, N. J., Improved Riggs.

J. Chalmers Rue, Tennent, N. J.

Phelps Chilled Plow Works, Phelps, N. Y.

G. Lord, Watertown, N. Y.

Bucher & Gibbs Plow Company, Canton, O., Imperial King, Imperial Queen. **See** page 139.

H. B. Milmine & Co., Toledo, O., Farmer's Friend.

Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa.

J. Thompson & Sons, Ltd., Beloit, Wis., Ole Olson. **See** page 102.

J. I. Case Plow Works, Racine, Wis.

STEAM GANG PLOWS.

Benicia Agricultural Works, Benicia, Cal., Berry's.

Deere & Co., Moline, Ill. **See** page 145.

Geiser Manufacturing Company, Waynesborough, Pa., Peerless.

WHEEL WALKING PLOWS.

Hapgood Plow Company, Alton, Ill., Hapgood. **See** page 143.

Walton Plow Company, Bloomington, Ill., She's All Right.

David Bradley Manufacturing Company, Chicago, Ill., Bradley.

Deere & Co., Moline, Ill., New Deal, Gilpin, Gazelle. **See** page 146.

Branch houses—John Deere Plow Company, Kansas City, Mo., Deere, Wells & Co., Council Bluffs, Ia., Deere & Co., Minneapolis, Minn., Deere Implement Company, San Francisco, Cal., H. H. Sickels & Co., Des Moines, Ia., The Spencer & Lehman Company, Decatur, Ill.

Moline Plow Company, Moline, Ill., Dutchman. **See** page 136.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia. Weir Plow Company, Monmouth, Ill.

Rock Island Plow Company, Rock Island, Ill., New Model.

Skandia Plow Company, Rockford, Ill., New Wonder, Monarch.

St. Paul Plow Works, St. Paul, Minn., Little Pirate.

J. Thompson & Sons, Ltd., Beloit, Wis., Uncle Sam. **See** page 102.

Fuller & Johnson Manufacturing Company, Madison, Wis., Columbia Gang, Young America.

J. I. Case Plow Works, Racine, Wis., Little Giant.

BREAKING PLOWS.

W. T. Stapler, Harmony Grove, Ga.

The Towers & Sullivan Manufacturing Company, Rome, Ga.

Hapgood Plow Company, Alton, Ill., also rod breakers. **See** page 143.

Walton Plow Company, Bloomington, Ill.

Parlin & Orendorff Company, Canton, Ill., rod, Prairie Chief brush.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

BREAKING PLOWS (Continued).

Star Manufacturing Company, Carpentersville, Ill.

David Bradley Manufacturing Company, Chicago, Ill., Garden City Clipper.

Grand Detour Plow Company, Dixon, Ill., also rod breakers.

Moline Plow Company, Moline, Ill., Western Queen, Hazel, Northwestern, Grub, Cricket, Railroad and Marsh. See page 136.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Des Moines, Ia and Omaha, Neb. Weir Plow Company, Monmouth, Ill., prairie breakers.

Peru Plow & Wheel Company, Peru, Ill., rod, mold board.

Rock Island Plow Company, Rock Island, Ill., Nebraska Pony and Meteor rod breakers, Nebraska, Kansas, Colorado steel, Minnesota Chief brush, Wisconsin grub breakers.

Rockford Manufacturing Company, Rockford, Ill.

Skandia Plow Company, Rockford, Ill., Northern King, Western Queen, rod breakers.

Sattley Manufacturing Company, Springfield, Ill. See page 141.

Roelker Plow Company, Evansville, Ind., Famous iron and wood beam.

St. Joseph Manufacturing Company, Mishawaka, Ind., Mishawaka chilled, Scotchman, Emperor, Clipper.

Empire Plow Company, Richmond, Ind.

Wm. Clore's Sons, Rising Sun, Ind., Rover.

South Bend Chilled Plow Company, South Bend, Ind., steel and chilled.

South Bend Iron Works (Oliver Chilled Plow Works,) South Bend, Ind., Oliver's Charles City Manufacturing Company, Charles City, Ia., Dakota Chief, Hawkeye

Norwegian Plow Company, Dubuque, Ia. See index to ads.

Philip Kiester, Ottumwa, Ia., Brush breaker.

Sioux City Plow Company, Sioux City, Ia., Nebraska rod breakers, Northwestern Geo. H. Rexford, Frankfort, Kan., rod breaking.

V. Cook Hainline, Levee, Ky., Hainline.

Brinly, Miles & Hardy Company, Louisville, Ky., Brinly's Universal.

Mitts & Merrill, Saginaw, Mich.

Carver Manufacturing Company, Carver, Minn., Prairie King.

Eggen Bros., Rushford, Minn., Skandinavian.

Winona Plow Company, Winona, Minn., Faultless.

St. Joseph Plow Company, St. Joseph, Mo., Grasshopper rod breakers.

Geo. F. Kregel, Nebraska City, Neb., Daisy, Nebraska City.

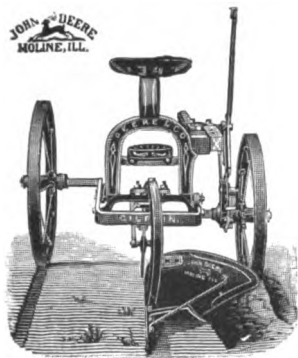
Bucher & Gibbs Plow Company, Canton, O., Imperial Prairie. See page 139.

Brown-Manly Plow Company, Malta, O., Malta, Silver Steel, Splitter, Hillside, Valley.

Lee Bros., Watertown, S. Dak., Watertown.

Gesley Bros. Manufacturing Company, Beloit, Wis., Dakota.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.



DEERE & COMPANY,

Moline, - Illinois.

Manufacturers of the celebrated

Gilpin Sulky Plow

— AND —

Gazelle Three-Wheeled Riding Plow.

Largest Manufactory of Plows and Cultivators in the World.

BREAKING PLOWS (Continued).

J. Thompson & Sons, Ltd., Beloit, Wis., Genuine Norwegian, prairie and grub. See page 102.

Geo. M. Pierce, Brodhead, Wis.

L. O. Amondson, Gratiot, Wis.

La Crosse Plow Works (A. Hirshheimer, prop.), La Crosse, Wis., Grub.

Fuller & Johnson Manufacturing Company, Madison, Wis., Bonanza, Viking, Scotlander.

W. F. Wyman, Oshkosh, Wis.

J. I. Case Plow Works, Racine, Wis., Belle City, Case Pony rod breakers.

SULKY PLOWS.

Painter & Frankland, Albion, Ill., Eureka.

Hapgood Plow Company, Alton, Ill., Old Reliable. See page 143.

Walton Plow Company, Bloomington, Ill., Prairie Queen tricycle.

Parlin & Orendorff Company, Canton, Ill., Tricycle, three wheel.

David Bradley Manufacturing Company, Chicago, Ill., Square Corner.

Grand Detour Plow Company, Dixon, Ill., Little Yankee, three wheel.

Moline Plow Company, Moline, Ill., Flying Dutchman riding. See page 136.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb. and Des Moines, Ia.

Deere & Co., Moline, Ill., Gilpin, New Deal, Gazelle. See ad. above.

Branch houses—John Deere Plow Company, Kansas City, Mo., Deere, Wells & Co., Council Bluffs, Ia., Deere & Co., Minneapolis, Minn., Deere Implement Company, San Francisco, Cal., H. H. Sickels & Co., Des Moines, Ia., The Spencer & Lehman Company, Decatur, Ill.

Weir Plow Company, Monmouth, Ill., Wild Irishman, All Right three wheeled.

Strauss & Goetsch, Naperville, Ill., Naperville.

Pekin Plow Company, Pekin, Ill., Headlight, Pekin.

Peru Plow & Wheel Company, Peru, Ill., Cock of the Walk.

E. C. Eaton, Pinckneyville, Ill., Eaton's.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

SULKY PLOWS (Continued).

- Collins Plow Company, Quincy, Ill., Collins. See page 115.
Rockford Manufacturing Company, Rockford, Ill.
Rockford Plow Company, Rockford, Ill., Skinner.
Skandia Plow Company, Rockford, Ill., Skandia, Monarch, New Wonder, Farmer's Pet.
Rock Island Plow Company, Rock Island, Ill., Buford, Eli.
F. R. Crothers, Sparta, Ill.
Sattley Manufacturing Company, Springfield, Ill., Sattley, Hummer. See page 141.
Elkhart Plow Sulky & Iron Company, Elkhart, Ind.
Henry F. Blount, Evansville, Ind., True Blue and Royal Beauty.
St. Joseph Manufacturing Company, Mishawaka, Ind., Mishawaka, Clark square corner.
Economist Plow Company, South Bend, Ind., Solid Comfort.
South Bend Iron Works (Oliver Chilled Plow Works), South Bend, Ind., Casaday, Oliver-Casaday, Oliver Jr.
Charles City Manufacturing Company, Charles City, Ia., Townsend.
Norwegian Plow Company, Dubuque, Ia., Honest Abe. See index to ads.
H. P. Kynett, Lisbon, Ia.
Sioux City Plow Company, Sioux City, Ia., Brostrom.
Thos. Maikle & Co., Louisville, Ky., Blue Grass.
B. F. Avery & Sons, Louisville, Ky., Blue Grass.
Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., National Reversible.
Gale Manufacturing Company, Albion, Mich., Big Injun three wheel.
Wilder Manufacturing Company, Monroe, Mich.
St. Paul Plow Works, St. Paul, Minn., Pirate.
Winona Plow Company, Winona, Minn.
Wiard Plow Company, Batavia, N. Y., chilled and steel, Wiard patent.
Robinson Chilled Plow Company, Canandaigua, N. Y., Robinson.
E. B. Daniels & Co., Havana, N. Y., Daniels.
Syracuse Chilled Plow Company, Syracuse, N. Y., Syracuse.
Fowler & Farrington, Taughannock Falls, N. Y., Fowler.
Bryan Plow Company, Bryan, O., Bryan.
Bucher & Gibbs Plow Company, Canton, O., Imperial. See page 139.
Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa., Farquhar's.
Gesley Bros. Manufacturing Company, Beloit, Wis., Gesley sulky, Gesley three wheeled tongueless.
J. Thompson & Sons, Ltd., Beloit, Wis., Ole Olson tongueless. See page 102.
La Crosse Plow Works (A. Hirshheimer, prop.), La Crosse, Wis., La Crosse.
J. I. Case Plow Works, Racine, Wis., Jay Eye See, Triumph.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

ROAD, RAILROAD AND GRADING PLOWS.

Parlin & Orendorff Company, Canton, Ill., Canton.
 F. C. Austin Manufacturing Company, Carpenter street and Carroll avenue, Chicago, Ill.
 David Bradley Manufacturing Company, 63 N. Desplaines street, Chicago, Ill.
 Collins Plow Company, Quincy, Ill., Giant, Boss. See page 115.
 Rock Island Plow Company, Rock Island, Ill.
 Jos. W. Buchanan, Indianapolis, Ind.
 Hunt & Adams, Indianapolis, Ind., Township No. 5 and 15.
 St. Joseph Manufacturing Company, Mishawaka, Ind., Mishawaka.
 Empire Plow Company, Richmond, Ind.
 Morrison Manufacturing Company, Ft. Madison, Ia.
 Western Wheel Scraper Company, Mt. Pleasant, Ia.
 Philip Kiester, Ottumwa, Ia.
 Brinly, Miles & Hardy Company, Louisville, Ky., Brinly.
 Ames Plow Company, Boston, Mass., and New York, N. Y.
 Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich., No. 5 wrought beam. See page 79.
 Wilder Manufacturing Company, Monroe, Mich.
 Mitts & Merrill, Saginaw, Mich.
 St. Joseph Plow Company, St. Joseph, Mo.
 John W. Douglass, 57 Beekman street, New York, N. Y.
 Syracuse Chilled Plow Company, Syracuse, N. Y.
 F. & J. H. Culver, West Oneonta, N. Y.
 Shunk Plow Company, Bucyrus, O., Silver King.
 Kilbourne & Jacobs Manufacturing Company, Columbus, O.
 American Steel Scraper Company, Sidney, O. See index to ads.
 W. M. Toy, Sidney, O.
 American Road Machine Company, Kennett Square, Pa.
 John Dorsch & Son, Milwaukee, Wis.

SWIVEL, REVERSIBLE AND SIDEHILL WALKING PLOWS.

Higganum Manufacturing Corporation, Higganum, Conn., Charter Oak.
 Wm. Clore's Sons, Rising Sun, Ind., I. X. L.
 Ball, Mitchel & Co., Maysville, Ky.
 Ames Plow Company, Boston, Mass., and New York, N. Y., Ames Centennial, Hakes.
 Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., Yankee, Oneonta Clipper.
 F. C. Merrill, South Paris Me., O. K. swivel plows.
 C. M. Lufkin, Alstead, N. H., New Lufkin steel or iron.
 J. P. Hussey, Gilmanton Iron Works, N. H., Star.
 Wiard Plow Company, Batavia, N. Y., Wiard.
 W. G. Graves, Champlain, N. Y., Champlain.

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SWIVEL, REVERSIBLE AND SIDE HILL WALKING PLOWS (Continued).

Clipper Chilled Plow Company, Elmira, N. Y.
E. B. Daniels & Co., Havana, N. Y., De Witt sulky reversible.
W. A. Mallery, Hillsdale, N. Y.
Reynolds & Lang, Ithaca, N. Y.
Jas. Chamberlin, Margaretville, N. Y., reversible landside.
Stringer, Dexter & Co., Munnsville, N. Y., Rough and Ready.
Syracuse Chilled Plow Company, Syracuse, N. Y., iron, steel and wood beam.
F. & J. H. Culver, West Oneonta, N. Y., Empire reversible.
E. R. Allen & Co., Whitesville, N. Y.
Mt. Vernon Plow & Machine Works, Mt. Vernon, O.
Geo. Wagner, Effort, Pa.
J. W. Murkland, Barton, Vt., Hubbel, Murkland.
Barrows & Sargent, Castleton, Vt., The 76, all kinds and sizes.
St. Albans Foundry, St. Albans, Vt.
Wm. H. May & Son, Alexandria, Va.
Look & Lincoln, Marion, Va.

SULKY REVERSIBLE PLOWS.

Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., National Reversible.
Clipper Chilled Plow Company, Elmira, N. Y., Strait's.
E. B. Daniels & Co., Havana, N. Y., De Witt's.
Syracuse Chilled Plow Company, Syracuse, N. Y., Syracuse.

WHEEL WALKING GANG PLOWS.

Hapgood Plow Company, Alton, Ill. See page 143.
Skandia Plow Company, Rockford, Ill., New Wonder, Monarch.
Rock Island Plow Company, Rock Island, Ill., Novelty.
Norwegian Plow Company, Dubuque, Ia., Square Deal. See index to ads.

COMBINED WALKING AND RIDING PLOWS.

Parlin & Orendorff Company, Canton, Ill., walking and riding gang.
Pekin Plow Company, Pekin, Ill., Headlight Combined.

PLOW SULKIES.

L. Cahill & Co., Kalamazoo, Mich., Cahill.
E. B. Daniels & Co., Havana, N. Y., Daniels.
John W. Douglass, 57 Beekman street, New York, N. Y., Fowler's Patent.

WHEEL RIDING PLOWS.

Weir Plow Company, Monmouth, Ill.
Economist Plow Company, South Bend, Ind., Solid Comfort.
H. G. Chamberlin & Co., Hudson, Mich.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

DITCHING PLOWS.

Wilder Manufacturing Company, Monroe, Mich.

C. Bartholomew, Etna, N. Y.

B. W. Bramer, Fabius, N. Y.

Phelps Chilled Plow Works, Phelps, N. Y.

PLOW STEEL.

Ætna Iron & Steel Company, 115 Dearborn street, Chicago, Ill., mill at Bridgeport, O.

Burgess Steel Works, Portsmouth, O.

Beaver Falls Steel Works, Beaver Falls, Pa.

Gautier Steel Dept. C. I. Company, Johnstown, Pa.

Smith Bros. & Co., Pittsburgh, Pa.

PLOW SHARES.

Star Manufacturing Company, Carpentersville, Ill., Star.

Dwight Plow Company, 70 La Salle street, Chicago, Ill.

Rockford Plow Company, Rockford, Ill., B. & E.

Skandia Plow Company, Rockford, Ill., Skandia.

John W. Douglass, 57 Beekman street, New York, N. Y., Bower's patent.

Syracuse Chilled Plow Company, Syracuse, N. Y.

Wm. H. May & Son, Alexandria, Va.

PLOW STOCKS, BLADES AND SUPPLIES.

Southern Plow Company, Columbus, Ga.

W. T. Stapler & Co., Harmony Grove, Ga.

The Towers & Sullivan Manufacturing Company, Rome, Ga.

Moline Plow Company, Moline, Ill., Georgia Single, Moline Texas. See page 136.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., Des Moines, Ia.

Hastings Engine & Iron Works, Hastings, Mich., chilled plow points and repairs.

B. F. Avery & Sons, Louisville, Ky.

G. W. Arnold & Son, Ionia, Mich.

Greentown Foundry Company, Greentown, O.

H. B. Milmine & Co., Toledo, O., repairs.

F. W. Schuerenberg, Brenham, Tex.

PLOW BEAMS.

Chicago Steel Works, 806 Noble street, Chicago, Ill., steel.

Holloway & Turner, Lebanon, Ind., wood.

S. E. Howe, Logansport, Ind., wood.

G. B. Lesh Manufacturing Company, Warsaw, Ind., wood.

Hugh F. Lyle & Co., Vesuvius, Va.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

PLOW COULTERS.

Boss Coulter Company, Bunker Hill, Ill., Boss, also O. K. coulter clamps.
 E. C. Eaton, Pinckneyville, Ill., Eaton's patent.
 H. B. Busing & Co., Rockford, Ill.
 Skandia Plow Company, Rockford, Ill., Skinner.
 L. A. Weyburn Company, Rockford, Ill., Ideal.
 Rock Island Plow Company, Rock Island, Ill.
 Sandoval Manufacturing Company, Sandoval, Ill., also coulter blades. See page 145.
 Henry F. Blount, Evansville, Ind.
 Roelker Plow Company, Evansville, Ind., swivel or straight bar.
 Wm. Clore's Sons, Rising Sun, Ind., rolling.
 Hartman Manufacturing Company, Vincennes, Ind., Acme Jr. and Acme Sr.
 Cyclone Works, De Witt, Ia., Cyclone.
 Thos. Meikle & Co., Louisville, Ky.
 J. H. Arnold & Son, Lyons, Mich., rolling.
 Geo. K. Oyler & Co., St. Louis, Mo., Oyler's, Sattley's, Stationary, Caster, South Bend, Loop, Singer, Buford, Newton and Hughes, also coulter blades.
 Syracuse Chilled Plow Company, Syracuse, N. Y.
 Princess Plow Company, Canton, O., Star.
 Canton Saw Company, Canton, O., Canton.
 C. H. Moore, Toledo, O.
 Beaver Falls Steel Works, Beaver Falls, Pa.
 J. Thompson & Sons, Ltd., Beloit, Wis., chilled hub caster coulter. See page 102.
 La Crosse Plow Works (A. Hirshheimer, prop.), La Crosse, Wis.

PLOW JOINTERS.

H. B. Busing & Co., Rockford, Ill.
 Skandia Plow Company, Rockford, Ill., Skandia.
 Syracuse Chilled Plow Company, Syracuse, N. Y.
 Frank L. Woodward, Clinton, Mich.

HOP PLOWS.

Syracuse Chilled Plow Company, Syracuse, N. Y.
 J. S. & M. Peckham, Utica, N. Y.

COULTER HUBS.

Hartman Manufacturing Company, Vincennes, Ind.
 Cyclone Works, De Witt, Ia., Cyclone.
 Geo. K. Oyler & Co., St. Louis, Mo., Underwood, Toumal and Rockford;

COULTER CLAMPS.

Boss Coulter Company, Bunker Hill, Ill., O. K.
 Hartman Manufacturing Company, Vincennes, Ind., adjustable.
 Cyclone Works, De Witt, Ia., Cyclone.

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SHOVEL PLOWS.

Benicia Agricultural Works, Benicia, Cal., Benicia, Kilgore, Rover.

Southern Agricultural Works, Atlanta, Ga., Excelsior.

Southern Plow Company, Columbus, Ga.

Towers & Sullivan Manufacturing Company, Rome, Ga.

Hapgood Plow Company, Alton, Ill. See page 148.

David Bradley Manufacturing Company, Chicago, Ill.

Geo. W. Brown & Co., Galesburgh, Ill., Knox.

Deere & Co., Moline, Ill. See pages 42, 189, 145, 146, 149.

Branch houses—John Deere Plow Company, Kansas City, Mo., Deere, Wells & Co., Council Bluffs, Ia., Deere & Co., Minneapolis, Minn., Deere Implement Company, San Francisco, Cal., H. H. Sickels & Co., Des Moines, Ia., The Spencer & Lehman Company, Decatur, Ill.

Moline Plow Company, Moline, Ill., Malta, New Texas. See page 136.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia.

Weir Plow Company, Monmouth, Ill., all styles.

Peru Plow & Wheel Company, Peru, Ill.

Skandia Plow Company, Rockford, Ill., Skandia.

Rock Island Plow Company, Rock Island, Ill.

Roelker Plow Company, Evansville, Ind., iron and wood.

D. Stine & Son, Ossian, Ind.

Empire Plow Company, Richmond, Ind.

Wm. Clore's Sons, Rising Sun, Ind., Woodstock, I. X. L.

South Bend Chilled Plow Company, South Bend, Ind.

Norwegian Plow Company, Dubuque, Ia. See index to ads

Thos. Meikle & Co., Louisville, Ky.

Ball, Mitchel & Co., Maysville, Ky.

Castree-Mallery Company, Flint, Mich., Star.

E. Bement & Sons, Lansing Mich.

Wilder Manufacturing Company, Monroe, Mich.

Donaldson Bros., Mt. Clements, Mich.

Johnson & Smith, Austin, Minn.

St. Paul Plow Works, St. Paul, Minn., all kinds.

O. J. Little, Deckertown, N. J.

Charles E. Buckley, Amenia Union, N. Y.

Champion Drill Company, Ltd., Avon, N. Y.

W. G. Graves, Champlain, N. Y.

George O. P. Turner, Churchville, N. Y.

Darbec, Peek & Bro., East Aurora, N. Y.

Chas. Schoepflin & Bro., Gardenville, N. Y., Perfect, iron beam and wing.

W. Eddy & Sons, Greenwich, N. Y.

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SHOVEL PLOWS (Continued).

Frank Maute, Lancaster, O., Lancaster.
 George Parnell, Ontario, N. Y., Parnell.
 Baker & Shevlin, Schuylerville, N. Y., Baker-Shevlin.
 Syracuse Chilled Plow Company, Syracuse, N. Y.
 J. S. & M. Peckham, Utica, N. Y.
 D. D. Bromley, Waterport, N. Y., wood and iron beam.
 F. & J. H. Culver, West Oneonta, N. Y.
 Ohio Cultivator Company, Bellevue, O., Stahl.
 Shunk Plow Company, Bucyrus, O.
 Burton Handle Company, Burton, O., Best.
 Motherwell Iron & Steel Company, Logan, O.
 Brown-Manly Plow Company, Malta, O., Malta, iron and wood beam
 J. F. Lanfersieck & Co., New Bremen, O.
 F. B. Ogden, Republic, O.
 Geo. E. Bechtolt, Urbana, O.
 Brown Manufacturing Company, Zanesville, O.
 Columbia Agricultural Works, Columbia, Pa.
 Snoebergers & Bassler, Martinsburgh, Pa.
 Craig, Wilkins & Martin, Columbia, Tenn., Craig's success.
 G. A. Kelly Manufacturing Company, Kellyville, Tex.
 Barrows & Sargent, Castleton, Vt.
 E. S. Garfield, Londonderry, Vt.
 Alex. Burdett, Belleville, W. Va.
 J. Thompson & Sons, Ltd., Beloit, Wis., Thompson. See page 102.
 L. O. Amondson, Gratiot, Wis.
 Fuller & Johnson Manufacturing Company, Madison, Wis.

NECK YOKES.

Rockford Neck Yoke Works, Rockford, Ill.
 Dublin Agricultural Company, Dublin, Ind., also double and single trees.
 Farmers Manufacturing & Supply Company, Indianapolis, Ind.
 J. H. Osborne & Co., Union City, Ind., Perfection, Model, O. K.
 Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich. See page 79.
 J. H. Arnold & Son, Lyons, Mich.
 E. Covert Manufacturing Company, Farmer Village, N. Y., World Renowned.
 Frank D. Hall, Gowanda, N. Y.
 John W. Douglass, 57 Beekman street, New York, N. Y.
 Knapp & Sturdevant, North Kingsville, O.
 Racine Hardware Manufacturing Company, Racine, Wis.
 Racine Malleable & Wrought Iron Company, Racine, Wis. See index to ads.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

OIL CAKE GRINDERS AND CRUSHERS.

L. J. Miller, Cincinnati, O., Nonpareil.

ONION WEEDERS.

C. O. Jelliff & Co., Southport, Conn.

MILL MACHINERY.

Nordyke & Marmon Company, Indianapolis, Ind. See page 92.

Novelty Iron Works, Dubuque, Ia. See index to ads.

Frank E. Fitts Manufacturing & Supply Company, 76 Pearl street, Boston, Mass.

ONION PULLERS.

C. O. Jelliff & Co., Southport, Conn.

PAINT MILLS.

Nordyke & Marmon Company, Indianapolis, Ind. See page 92.

PEANUT MACHINERY.

H. M. Smith & Co., Richmond, Va.

Cardwell Machine Company, Richmond, Va.

PERFORATED METALS.

Harrington & King Perforating Company, Chicago, Ill., all kinds.

Robert Aitchison Perforated Metal Company, 76 E. Van Buren street, Chicago, Ill., all kinds.

MENDERS FOR BINDER CANVAS SLATS.

I. Z. Merriam, Whitewater, Wis., also for headers, thresher straw carriers, etc.

PRUNING SHEARS.

I. X. L. Pump Company, Goshen, Ind., Cline's.

Goshen Fence Machine Company, Goshen, Ind., Cline's Tree Pruners.

E. S. & F. Bateman, Grenloch, N. J., Sylvan.

E. S. Lee & Co., Rochester, N. Y., Lee's tree pruners.

F. B. Ogden, Republic, O., Grasshopper.

C. H. Moore, Toledo, O.

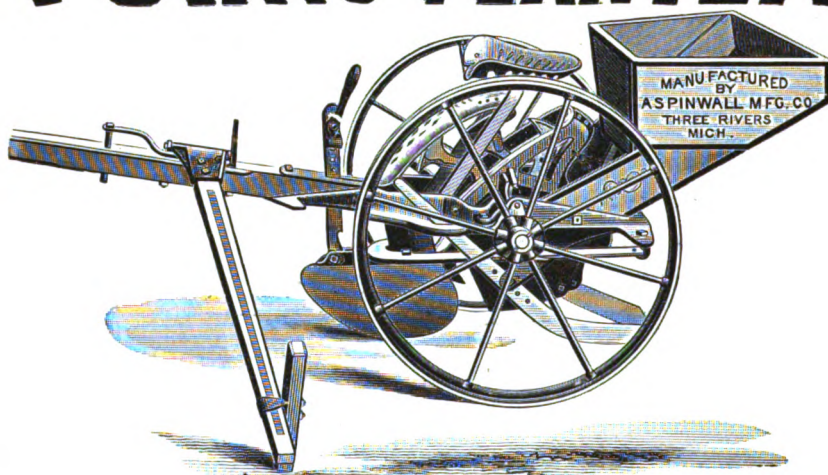
THE ACCOUNT BOOK.

Every yearly subscriber to the **FARM IMPLEMENT NEWS** receives a copy of the **BUYER'S GUIDE** as a free premium. The **IMPLEMENT DEALER'S ACCOUNT BOOK** is supplied only in connection with the paper and the **BUYER'S GUIDE** for \$1.75. Address—

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"ASPINWALL" POTATO-PLANTER



THE VERY BEST ON EARTH!

Agents wanted in Unoccupied Territory. Write for Circular and Prices.

ASPINWALL MFG. CO., Three Rivers, Mich.

POTATO PLANTERS.

Fair, Williams & Co., Ottumwa, Ia., Newbold's Improved.

Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., True.

A. McKenney, Middleboro, Mass.

Aspinwall Manufacturing Company, Three Rivers, Mich., Aspinwall. See ad. above.

Traverse City Potato Planter Manufacturing Company, Traverse City, Mich.

A. B. Smith, Fairfield, Neb.

A. M. Irwin & Co., 28 McCance block, Pittsburgh, Pa., Senour.

POTATO DIGGERS.

Thompson & Neill, Greeley, Colo., Smith.

J. McCallum Manufacturing Company, Elgin, Ill., McCallum.

Moline Plow Company, Moline, Ill., Moline and Moline Knocker. See page 186.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn

& Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia.

Strauss & Goetsch, Naperville, Ill.

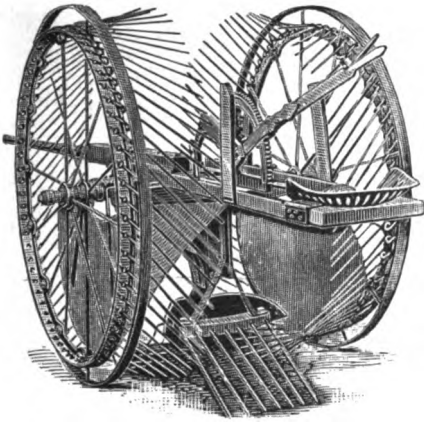
Rock Island Plow Company, Rock Island, Ill., Champion.

Sterling Manufacturing Company, Sterling, Ill., Sterling and Common Sense.

Oldendorph Bros., Waterloo, Ill.

Wm. Clore's Sons, Rising Sun, Ind., Clore's Improved.

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TRIUMPH Potato Digger.

No Clogging by Weeds or Vines.

Light Draft. No Gearing. Perfect Work.

F. M. THORN,
Orchard Park, Erie Co., N. Y.

POTATO DIGGERS (Continued).

- Ames Plow Company, Boston, Mass., and New York, N. Y.
 Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass, Hitchcock.
 Lewis, Hampton & Co., Detroit, Mich., Lewis.
 G. W. Arnold & Son, Ionia, Mich.
 Roberts, Throp & Co., Three Rivers, Mich., Happy Thought.
 W. R. Van Gilder, Petersburg, N. J., Favorite.
 J. Chalmers Rue, Tennent, N. J., Rue's.
 Robinson Chilled Plow Company, Canandaigua, N. Y., Robinson.
 Rawson & Thatcher, Corning, N. Y., Boss.
 A. Ansley, Geneva, N. Y., Ansley cultivator combined.
 Gowanda Agricultural Works Company, Gowanda, N. Y., Knox.
 Pruyn Potato Digger Company (Henry S. Pruyn), Hoosick Falls, N. Y., Standard,
 Big Four.
 J. W. Douglass, 57 Beekman street, New York, N. Y., Apex.
 Frank M. Thorn, Orchard Park, N. Y., Triumph. See ad. above.
 Riverhead Agricultural Works, Riverhead, N. Y., Hudson steel.
 Planter's Hoe Company, Troy, N. Y.,
 Mattice & Keeler, Wallace, N. Y. Boss.
 Hoover & Prout, Avery, O., New Hoover, also Hoover potato sorter.
 Chieftain Hay Rake Company, Canton, O., Lightning.
 Motherwell Iron & Steel Company, Logan, O.
 S. L. Allen & Co., 1107 Market street, Philadelphia, Pa., Planet Jr. also Planet
 Jr. special diggers for sweet potatoes.
 J. A. Hood, 75 Laurel street, Philadelphia, Pa.
 Novelty Iron Works (Throop & Huber), Priceburgh, Pa.
 Spangler Manufacturing Company, York, Pa., Spangler.
 J. Spring & Son, York, Pa., Spring.
 Foster & Williams, Racine, Wis. See page 85.

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POTATO FORKS.

Geo. A. Hall, North Granville, N. Y.

POTATO BUG DESTROYERS.

C. W. Bradley & Co., E. Bloomfield, N. Y.

POST HOLE DIGGERS

Eureka Digger Company, 178 E. Huron street, Chicago, Ill.

Vaughan & Bushnell Manufacturing Company, 89-95 S. Clinton street, Chicago, Ill.

E. P. Kent & Son, Maroa, Ill., Climax.

Iwan Bros., Streator, Ill.

J. H. Osborne & Co., Union City, Ind., Gem.

Gowanda Agricultural Works, Gowanda, N. Y., Boss.

Chieftain Rake & Tedder Company, Canton, O., Little Giant, Hercules, New Champion, Scheidler.

Gibbs Manufacturing Company, Canton, O., Gibbs, Imperial.

Hocking Valley Manufacturing Company, Lancaster, O., Hocking Valley.

Motherwell Iron & Steel Company, Logan, O.

Springfield Implement Company, Springfield, O., Eclipse, Eclipse post hole bars.

Janesville Hay Tool Company, Janesville, Wis., Boss. See page 106.

A. T. Zilisch, Mayville, Wis.

Racine Malleable & Wrought Iron Company, Racine, Wis., Eureka, Racine. Champion auger. See index to ads.

Hurlbut Manufacturing Company, Racine, Wis., Gunther's. See page 108.

PUMPS.

Pacific Manufacturing Company, San Francisco, Cal., Cyclone.

F. W. Krogh & Co., San Francisco, Cal.

Byron Jackson, San Francisco, Cal., Jackson's Centrifugal.

A. M. Abbott, Stockton, Cal., Abbott.

John Stowell, Stockton, Cal.

Thompson & Neill, Greeley, Col., Cable chain irrigation pumps.

Hamlin Pump Company, Hartford, Conn., rubber bucket pumps.

W. & B. Douglas, Middletown, Conn., all styles and sizes.

American Well Works, Aurora, Ill., Chapman deep well, Duplex.

Challenge Wind Mill & Feed Mill Company, Batavia, Ill., all sizes.

U. S. Wind Engine & Pump Company, Batavia, Ill., wind mill, hand, power, brass and iron. See index to ads.

Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Ft. Worth, Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

PUMPS (Continued).

- Bushnell Pump Company, Bushnell, Ill., wood and porcelain lined pumps, and rubber button chain pumps.
- Temple Pump Company, Chicago, Ill., brass cylinder, wood, iron and chain pumps.
- Fairbanks, Morse & Co., Chicago, Ill. See page 163.
- Lamb & Co., Freeport, Ill. See page 92.
- Stover Manufacturing Company, Freeport, Ill.
- Woodmanse & Hewitt Manufacturing Company, Freeport, Ill., iron.
- May Bros., Galesburgh, Ill.
- Hayes Pump & Planter Company, Galva, Ill., Hayes.
- Automatic Mower & Manufacturing Company, Harvey, Ill.
- D. T. Weed, Lanark, Ill., chain pumps.
- Marseilles Manufacturing Company, Marseilles, Ill. See page 36.
- Jones, Woodruff & Co., Rockford, Ill.
- Trahern Pump Company, Rockford, Ill., iron and brass.
- Ward Pump Company, Rockford, Ill., Ward iron pumps, all styles.
- Sandwich Enterprise Company, Sandwich, Ill., New Champion force and vacuum chamber suction pumps, Enterprise force and lift. See page 166.
- Wm. McCune & Co., Sterling, Ill., Sterling wood and iron pumps.
- Novelty Iron Works, Sterling, Ill.
- E. A. Platter & Sons, Anderson, Ind., wood
- E. W. Walker & Co., Goshen, Ind., wood and chain pumps.
- The I. X. L. Pump Company, Goshen, Ind., I. X. L. wood and chain pumps, brass lined pumps.
- Jacob Binkley, Huntington, Ind.
- Comstock & Coonse, Indianapolis, Ind., Coonse wood, chain and wooden force pumps.
- Howe Pump & Engine Company, Indianapolis, Ind.
- Flint & Walling Manufacturing Company, Kendallville, Ind., Hoosier all styles, wind mill, hand, force and lift.
- B. F. Biggs Pump Company, La Fayette, Ind., La Fayette wood suction pumps, Boss chain pumps.
- Wm. Douglas & Son, La Fayette, Ind., all styles wood pumps, rubber bucket chain pumps, brass and porcelain lined pumps.
- Lima Manufacturing Company, Lima, Ind.
- W. H. Aldrich, Logansport, Ind., force.
- H. Dickinson & Son, Lowell, Ind., Dickinson's improved water purifier pump.
- Daisy Implement Company, Pleasant Lake, Ind., Daisy.
- South Bend Pump Company, South Bend, Ind., all styles of wood pumps.
- Kegler, Weinschenk & Ahlers, Bellevue, Ia., all styles iron, chain and cistern pumps.
- Harris & Cole Bros., Cedar Falls, Ia., wood.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.



"OSGOOD" U. S. Standard SCALES.

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PUMPS (Continued).

Cedar Rapids Pump Company, Cedar Rapids, Ia., Cedar Rapids wood, also rubber bucket chain pumps.

Red Jacket Manufacturing Company, Davenport, Ia., Red Jacket adjustable force pumps.

R. W. Crone, Des Moines, Ia., Durbon.

Carter Bros., Des Moines, Ia., Carter's Wind Mill Regulator pumps, wood pumps.

A. Y. McDonald Manufacturing Company, Dubuque, Ia., all styles of iron pumps.

Keokuk Wind Engine Company, Keokuk, Ia., Keokuk iron and force.

Pech Manufacturing Company, Storm Lake, Ia.

Metcalf Manufacturing Company, Eddyville, Ky., water elevator purifying pumps.

Ball, Mitchel & Co., Maysville, Ky., I. X. L.

Progress Engine & Machine Works, Summerfield, Md., Universal hand wind mill and force pumps.

Frank O. Furber, Saco, Me., wood pumps.

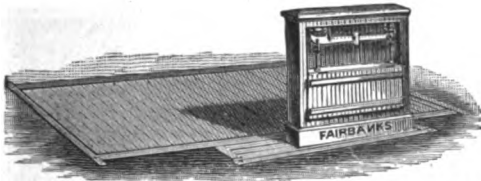
S. Wilder & Co., Holliston, Mass., copper pumps.

Union Wind Mill & Manufacturing Company, Albion, Mich., Albion.

George Miller & Son, Ann Arbor, Mich., all kinds of wood pumps, with porcelain and brass cylinders.

Steam Heat Evaporator Company, Charlotte, Mich., Gem Improved.

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CINCINNATI. INDIANAPOLIS. LOUISVILLE.

PUMPS. (Continued).

- Joe Davis & Son, Flushing, Mich., wooden force pumps.
B. Wright & Son, Hudson, Mich., spraying pumps.
Kalamazoo Tubular Well Company, Kalamazoo, Mich.
H. N. Hill, Pontiac, Mich., galvanized iron, Wood, stone cylinder.
Chas. L. Allbaugh, Tecumseh, Mich., Tecumseh, wood.
Thomas Clyne, Vassar, Mich., section force and chain pumps.
M. S. Hall, Ypsilanti, Mich., rubber bucket chain pumps.
R. R. Howell & Co., Minneapolis, Minn., tank pumps.
St. Joseph Pump Company, St. Joseph, Mo., Perfection water elevator and purifying pumps, wood suction and rubber button chain pumps.
Dempster Mill Manufacturing Company, Beatrice, Neb.
Geneva Iron & Wind Mill Company, Geneva, Neb.
W. E. Kent, Fairfield, N. J., rubber valve chain pumps.
P. C. Lewis, Catskill, N. Y., hand force pumps.
M. J. King, Collins Center, N. Y., wood pumps.
Wiard & Eggleston, East Avon, N. Y., Wiard wood pumps.
Frank D. Hall, Gowanda, N. Y., Adams wood pumps, iron pumps.
A. M. Ross & Co., Ilion, N. Y.
Field Force Pump Company, Lockport, N. Y., all kinds of house and well pumps; also Niagara well force pumps, Economy garden engine.
Robert Hoes & Son, Malden Bridge, N. Y., Columbian, Young America.
H. B. Griffing, 70 Cortlandt street, New York, N. Y., rubber bucket pumps.
Pierce Artesian & Oil Well Supply Company, 80 Beaver street, New York, N. Y., Pierce.
Foote & Co., Nunda, N. Y., Lone Star.
Gleason & Bailey Manufacturing Company, Ltd., Seneca Falls, N. Y., iron pumps of every description for hand and power.
Rumsey & Co., Ltd., Seneca Falls, N. Y., all kinds iron pumps.
Goulds Manufacturing Company, Seneca Falls, N. Y., and 60 Barclay street, New York, N. Y., all kinds of iron pumps, all sizes and styles.

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Bolster Springs,
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Grey Iron Castings,**

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J. P. DAVIES, Manager.

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C. Wakefield & Son, Theresa, N. Y., Wakefield's force pumps.

Charles Millar & Son, Utica, N. Y.

G. Lord, Watertown, N. Y.

Watkins Chilled Plow Company, Watkins, N. Y., chain pumps.

F. E. Myers & Bro., Ashland, O., Myer's force and lift pumps, Cyclone.

Kohnz & Urig, Avon, O., Reliable, also spraying.

Gilbert Lockhart, Bryan, O., wood pumps.

Fernando B. Smith, Canton, O., Novelty force pumps.

John H. McGowan Company, 42 Central avenue, Cincinnati, O.

Columbiana Pump & Machine Company, Columbiana, O., all kinds.

J. R. Ashton Machinery Company, Lima, O., centrifugal pumps.

Humphryes Manufacturing Company, Mansfield, O., all kinds of iron and brass pumps.

Hess, Snyder & Co., Massillon, O., Novelty iron pumps, all kinds, lift pumps.

Middletown Pump Company, Middletown, O., wood suction and chain pumps.

Knapp & Sturdevant, North Kingsville, O., Ohio wood, Climax chain.

Silas E. Crawford, Norwalk, O., Champion chain pumps.

The Deming Company, Salem, O., Keystone force and lift pumps, all kinds wind mill and hand pumps.

Sandusky Machine & Agricultural Works, Sandusky, O., New Oscillating force pump.

Superior Machine Company, Springfield, O., Superior iron force and lift pumps.

Springfield Machine Company, Springfield, O., all kinds.

Thomas Manufacturing Company, Springfield, O., Thomas force and lift pumps.

Mast, Foos & Co., Springfield, O., Buckeye force pumps.

Kelly & Sons, Troy, O.

D. H. Bausman, Bausman, Pa., Times force.

H. S. Gilbert & Co., Chambersburgh, Pa., Gilbert's force and lift.

Olds Pump Company, Erie, Pa., wood pumps.

Smith Harper, Fox Chase, Philadelphia, Pa.

J. A. Whitman, Providence, R. I., garden fountain pump.

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Sheathing Paper, Roof Paint, etc.

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PUMPS (Continued).

Southern Pump & Pipe Company, Chattanooga, Tenn., wood and chain pumps.

A. C. Parker & Co., Memphis, Tenn., Parker's elevator, purifying and chain pumps

Wise Wagon Works, Buena Vista, Va., Wise rubber valve chain pump.

Eclipse Wind Engine Company, Beloit, Wis., lift, force, double acting.

Frank F. Pierce, Brodhead, Wis., Pierce's iron pumps.

Baker Manufacturing Company, Evansville, Wis., antifreezing lift and force and
Pitcher spout pumps.

E. James, Oshkosh, Wis., Clough patent.

Oshkosh Pump Company, Oshkosh, Wis.

Racine Hardware Manufacturing Company, Racine, Wis., Racine.

Winship Manufacturing Company, Racine, Wis., and The Manufacturer's Syndi-
cate, Minneapolis, Minn., Racine and X. L. N. T. wood pumps. See index to ads.

The Althouse-Wheeler Company, Waupun, Wis., Waupun wood and iron pumps.

IRON AND STEEL ROOFING.

J. A. Miller & Bro., Chicago, Ill.

Lloyd Iron Roofing & Corrugating Company, Chicago, Ill.

Excelsior Iron Roofing Company, Aurora, Ind.

Missouri Iron Roofing & Corrugating Company, St. Louis, Mo.

New York Iron Roofing & Corrugating Company, New York, N. Y.

Charles Millar & Son, Utica, N. Y.

Cambridge Roofing Company Cambridge, O.

Berger Manufacturing Company, Canton, O.

Canton Steel Roofing Company, Canton, O. See ad. above.

J. H. Eller & Co., Canton, O.

Kanneberg Roofing Company, Canton, O.

Globe Iron Roofing & Corrugating Company, Cincinnati, O.

Sagendorph Iron Roofing & Corrugating Company, Cincinnati, O.

Scott & Co., Cincinnati, O.

W. G. Hyndman & Co., Cincinnati, O.

Thompson Manufacturing Company, Cleveland, O.

Garry Iron & Steel Roofing Company, Cleveland, O., Garry's patent.

Rhodes, Dekelman & Co., Forest, O.

Bodine Roofing Company, Mansfield, O.

Holton Iron Roofing Company, New Lisbon, O.

Sykes Iron & Steel Roofing Company, Niles, O., Sykes patent corrugated.

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Reversible Float Valve—For high or low pressure. Positive in action.

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Ratchet Die Stock—For plumbers, pump men, gas fitters; threads pipe in corner, in ditches, in wells or other difficult places.

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Cincinnati Corrugating Company, Piqua, O., patent edge.

N. Halderman & Co., Philadelphia, Pa.

Caldwell & Peterson, Wheeling, W. Va.

W. A. List & Co., Wheeling, W. Va.

ROOFING.

S. E. Barrett Manufacturing Company, 70 La Salle street, Chicago, Ill., Black Diamond.

RUBBER PUMP BUCKETS.

Temple Pump Company, 17-27 Meagher street, Chicago, Ill., Temple, Churchill, Victor.

J. G. Henderson & Co., Keokuk, Ia., Automatic Drain.

A. D. Crosby, Cuba, N. Y. See ad. above.

HYDRAULIC PRESSES.

Hydraulic Press Manufacturing Company, Mt. Gilead, O.

HYDRAULIC RAMS.

Fairbanks, Morse & Co., Chicago, Ill. See page 163.

Gleason & Bailey Manufacturing Company, Ltd., Seneca Falls, N. Y.

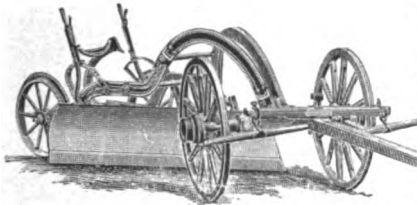
Goulds Manufacturing Company, Seneca Falls, N. Y.

Charles Millar & Son, Utica, N. Y.

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WATER ELEVATORS.

Fairbanks, Morse & Co., Chicago, Ill. See page 163.

Temple Pump Co., 17-27 Meagher street, Chicago, Ill., Temple Perfection.

PUMP CYLINDERS AND STANDARDS.

Fairbanks, Morse & Co., Chicago, Ill. See page 163.

Marseilles Manufacturing Company, Marseilles, Ill. See page 36.

Ward Pump Company, Rockford, Ill., Ward.

Sandwich Enterprise Company, Sandwich, Ill., Enterprise brass. See page 166.

Flint & Walling Manufacturing Company, Kendallville, Ind.

Strait Wind Mill Company, Galesburgh, Mich.

Strait Manufacturing Company, Kalamazoo, Mich.

Dempster Mill Manufacturing Company, Beatrice, Neb.

Superior Machine Company, Springfield, O.

The Deming Company, Salem, O., artesian well cylinders.

Oshkosh Pump Company, Oshkosh, Wis.

SHOVELING BOARDS.

Hayes Pump & Planter Company, Galva, Ill., Boss Hayes.

M. Buhler, La Moille, Ill., Victor.

A. B. Clippinger & Bro., Centralia, Kan., Omaha.

ROAD MACHINES AND GRADERS.

F. C. Austin Manufacturing Company, Carpenter street and Carroll avenue, Chicago, Ill., Austin, New Era.

Joshua Moore, Marseilles, Ill., Common Sense and Little Giant. See ad. above.

Pitts Manufacturing Company, Marseilles, Ill., Black Hawk.

Fleming Road Machine Company, Fort Wayne, Ind., Boss two wheel, Leader four wheel, Walkaway four wheel, reversible wood and steel frame.

Hunt & Adams, Indianapolis, Ind., Little Wonder non-reversible, Steel Champion reversible.

R. Long & Co., Iowa City, Ia., Hawkeye road maker.

J. H. Maggard & Co., Iowa City, Ia., Rotary.

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ROAD MACHINES AND GRADERS (Continued).

Western Wheel Scraper Company, Mt. Pleasant, Ia., Western Reversible.
Kinnard Press Company, Minneapolis, Minn., Flour City. See page 116.
Riverhead Agricultural Works, Riverhead, N. Y., three wheel.
Kilbourne & Jacobs Manufacturing Company, Columbus, O., Light Champion.
Griffin Road Machine Company, Elyria, O.
American Road Machine Company, Kennett Square, Pa., American Champion,
Light Champion, Victor reversible, Improved Pennock, New Daisy, Little
Wonder.
Vulcan Road Machine Company, Kennett Square, Pa., New Pennock reversible,
New Lamborn.
Charles E. Parker, Vergennes, Vt., Little Giant.

ROAD LEVELERS.

Sandwich Enterprise Company, Sandwich, Ill., Climax. See page 166.
Western Wheel Scraper Company, Mt. Pleasant, Ia., Western.

SCYTHE SNATHS.

Thomas C. Fisher, Anderson, Ind.
Seymour Manufacturing Company, Seymour, Ind., and St. Louis, Mo., Seymour
patent swing socket.
Iowa Farming Tool Company, Ft. Madison, Ia.
Withington & Cooley Manufacturing Company, Jackson, Mich.
Stearns Manufacturing Company, Lebanon, N. H.
Auburn Manufacturing Company, Auburn, N. Y.
Brown, Hinman & Huntington Company, Columbus, O.
E. C. Brinser, Middletown, Pa.

WATER MOTORS.

Tuerk Hydraulic Power Company, 39 Dearborn street, Chicago, Ill.

COFFEE SEPARATORS.

Foster & Williams, Racine, Wis. See page 85.
Johnson & Field Company, Racine, Wis., Racine. See page 70.
Racine Implement Company, Racine, Wis. See page 70.

REFRIGERATORS.

McCrary Refrigerator & Cold Storage Company, Kendallville, Ind.
H. F. Brammer Manufacturing Company, Davenport, Ia., Sweet's Dry Air.
Challenge Corn Planter Company, Grand Haven, Mich., Challenge Iceberg.
Keller Manufacturing Company, Sauk Centre, Minn., Simmons.
Cornish, Curtis & Greene, Ft. Atkinson, Wis., Curtis cold dry air.
Racine Refrigerator Company, Racine, Wis., Bettridge's dry air patent.

RICE HARVESTERS.

Wm. Deering & Co., Chicago, Ill. See page 18.

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RICE CLEANERS.

Cardwell Machine Company, Richmond, Va., Cardwell's thresher and cleaner.

H. M. Smith & Co., Richmond, Va.

Johnson & Field Company, Racine, Wis., Racine. See page 70.

RICE MACHINERY.

Geo. L. Squier Manufacturing Company, Buffalo, N. Y.

RIDGERS.

Higganum Manufacturing Corporation, Higganum, Conn., Clark's.

ROCK BREAKERS.

Totten & Hogg Iron & Steel Foundry Company, Pittsburgh, Pa., Forster's patent.

ROCK DIGGERS.

Chas. G. Allen & Co., Barre, Mass., Little Giant.

ROPE.

Peoria Cordage Company, Peoria, Ill.

Mt. Vernon Company, Baltimore, Md. See page 24.

Boston Cordage Company, Boston, Mass.

Plymouth Cordage Company, North Plymouth, Mass., Plymouth.

Elizabethport Cordage Company, 46 South street, New York, N. Y., all kinds.

See page 20.

L. Waterbury & Co., 132 Front street, New York, N. Y., Convert. See page 20.

Jno. Bonte's Sons Company, Cincinnati, O.

National Cordage Company, New York, N. Y.

Thos. Jackson & Son, Reading, Pa., manila, sisal, New Zealand, mixed, jute.

STUMP PULLERS.

Voth & Duisdieker, Pekin, Ill., Practical, Cyclone.

Kratz Bros., Evansville, Ind., The John Cornelius.

James Milne & Son, Scotch Grove, Ia., Hawkeye grub and stump machine.

H. A. Currier, Almont, Mich., Bailey's.

Chamberlin Manufacturing Company, Olean, N. Y., Chamberlin screw.

H. L. Bennett & Co., Westerville, O., Bennett's Improved.

Sutton Bros. & Bell, Indiana, Pa., Martin.

Smith Manufacturing Company, La Crosse, Wis., Little Giant.

SORGHUM AND SUGAR CANE CUTTERS.

The E. W. Ross Company, Springfield, O., Ross Jumbo. See page 74.

SUGAR CANE MACHINERY.

Geo. L. Squier Manufacturing Company, Buffalo, N. Y.

Blymyer Iron Works Company, Cincinnati, O.

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SCALES.

Borden, Selleck & Co., Chicago, Ill., all kinds.
 Fairbanks, Morse & Co., Chicago, Ill., Fairbanks standard, all kinds. [See page 163.
 Moline Scale Company, Moline, Ill., all kinds, Victor.
 Charles Brunner, Peru, Ill., Acme.
 Howe Manufacturing Company, Toledo, Ia., Toledo.
 U. S. Scale Company, Terre Haute, Ind.
 Michigan Scale Company, Kalamazoo, Mich., Michigan.
 Flour City Automatic Scale Company, Minneapolis, Minn.
 Osgood & Thompson, Binghamton, N. Y., all kinds. See page 162.
 Jones of Binghamton, Binghamton, N. Y., all kinds. See page 170.
 Weeks & Ray, Buffalo, N. Y., U. S. Standard, all kinds.
 Buffalo Scale Company, Buffalo, N. Y., all kinds, U. S. Standard.
 C. Bartholomew, Etna, N. Y., all kinds.
 Geo. H. Snyder, Ghent, N. Y., Union.
 Joseph Allen, Jr., Palmyra, N. Y., Allen's.
 H. J. Howe & Co., Rochester, N. Y.
 Forsythe Scale Company, Youngstown, O.
 Jos. Root, York Scale Works, York, Pa.
 Howe Scale Company, Rutland, Vt.
 E. & T. Fairbanks & Co., St. Johnsbury, Vt., all kinds and sizes.
 N. B. Gaston & Son, Beloit, Wis., Gaston.

PORTABLE SAW MILLS.

Geo. S. Grier & Son, Milford, Del.
 De Loach Mill Manufacturing Company, Atlanta, Ga., De Loach variable friction feed.
 Van Winkle Gin & Machine Company, Atlanta Ga., and Dallas, Tex.
 Winship Machine Company, Atlanta, Ga.
 Schofield Iron Works, Macon, Ga., Premium.
 R. D. Cole Manufacturing Company, Newnan, Ga.
 Heilman Machine Works, Evansville, Ind., Heilman pony, Standard.
 Kratz Bros., Evansville, Ind.
 F. Kitten, Ferdinand, Ind.
 Greencastle Foundry & Machine Company, Greencastle, Ind., Culver iron drag saw.
 Chandler & Taylor Company, Indianapolis, Ind., Circular, Mulay.
 C. & A. Potts & Co., Indianapolis, Ind.
 Robinson & Co., Richmond, Ind.
 Gaar, Scott & Co., Richmond, Va. See page 64.
 Richmond Machine Works, Richmond, Ind.
 Novelty Iron Works, Dubuque, Ia. See index to ads.
 Metcalfe Manufacturing Company, Eddyville, Ky., Metcalfe's Nonpareil.

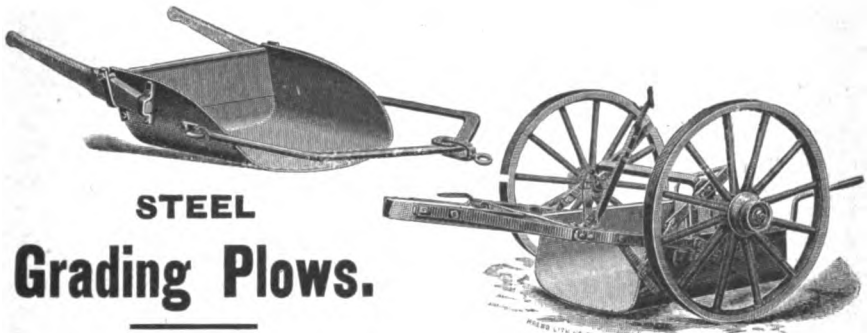
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PORTABLE SAW MILLS (Continued).

Brennan & Co. South Western Agricultural Works, Louisville, Ky.
 Hagerstown Steam Engine & Machine Company, Hagerstown, Md., Empire.
 Grand Rapids Manufacturing & Implement Company Grand Rapids, Mich., Valley
 circular mill. See page 79.
 Lansing Iron & Engine Works, Lansing, Mich.
 Wilson & Hendrie, Montague, Mich.
 Mankato Manufacturing Company, Mankato, Minn.
 Kinnard Press Company, Minneapolis, Minn., Flour City. See page 116.
 Minnesota Thresher Manufacturing Company, Stillwater, Minn., Stillwater.
 Curtis & Co. Manufacturing Company, St. Louis, Mo., Dixie, Giant.
 Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Kingsland &
 Douglas.
 The Birdsall Company, Auburn, N. Y.
 Henry H. Lovejoy, Cambridge, N. Y.
 Lyon Iron Works, Greene, N. Y., Standard.
 The Westinghouse Company, Schenectady, N. Y.
 A. C. Powell & Son, Syracuse, N. Y., Carley.
 Watertown Steam Engine Company, Watertown, N. Y.
 Liddell & Co., Charlotte, N. C., Standard.
 Sergeant Manufacturing Company, Greensborough, N. C., Standard.
 Salem Iron Works (C. A. Hege & Co., props.), Salem, N. C., Hege's improved.
 Lane & Bodley Company, Cincinnati, O., Plantation.
 Smith, Myers & Schnier, Cincinnati, O.
 Enterprise Manufacturing Company, Columbiana, O., New Buckeye
 Ritchie & Dyer Company, Hamilton, O., Merchant.
 J. R. Ashton Machinery Company, Lima, O.
 Aultman & Taylor Company, Mansfield, O., Mansfield.
 Mansfield Machine Works, Mansfield, O., circular.
 Russell & Co., Massillon, O., Massillon, Boss.
 C. & G. Cooper & Co., Mt. Vernon, O.
 Scheidler Machine Works, Newark, O., heavy, standard size, pony, circular.
 Hugh Wright & Sons, New Lisbon, O., Standard.
 Taylor Manufacturing Company, Chambersburgh, Pa.
 Crowell Manufacturing Company, Greencastle, Pa.
 Hauck & Comstock, Mechanicsburgh, Pa. See page 42.
 Monroeton Manufacturing Company, Monroeton, Pa.
 E. B. Marsh & Bro., Snyder'sville, Pa., circular.
 Frick Company, Waynesborough, Pa., Eclipse.
 Geiser Manufacturing Company, Waynesborough, Pa., Geiser.
 Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa.,
 Farquhar's.
 Livermore Foundry & Machine Company, Memphis, Tenn.

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SOLID STEEL TRAY WHEELBARROWS.

—MANUFACTURED BY—

American Steel Scraper Co.,
SIDNEY, OHIO.

Write for Catalogue.

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A. J. Zink & Son, Christiansburgh, Va.
 Ronceverte Machine & Foundry Company, Ronceverte, W. Va.
 A. Hamacek & Co., Ahnapee, Wis.
 J. I. Case Threshing Machine Company, Racine, Wis.

DRAG SCRAPERS.

Benicia Agricultural Works, Benicia, Cal., Eureka sweepstakes.
 David Bradley Manufacturing Company, Chicago, Ill.
 F. C. Austin Manufacturing Company, Chicago, Ill.
 Jos. W. Buchanan, Indianapolis, Ind., steel.
 St. Joseph Manufacturing Company, Mishawaka, Ind., Mishawaka.
 Empire Plow Company, Richmond, Ind.
 Morrison Manufacturing Company, Ft. Madison, Ia., Dump, Deevy's patent.
 Western Wheel Scraper Company, Mt. Pleasant, Ia., Western.
 Ames Plow Company, Boston, Mass., and New York, N. Y.
 E. Bement & Sons, Lansing, Mich., steel and cast blade.
 Owen J. Little, Deckertown, N. J.
 W. Eddy & Son, Greenwich, N. Y.
 W. A. Mallery, Hillsdale, N. Y.
 H. N. Hubbard, 96 Chambers street, New York, N. Y., iron or steel blade.
 Geo. Parnell, Ontario, N. Y., Parnell.

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DRAG SCRAPERS (Continued).

Syracuse Chilled Plow Company, Syracuse, N. Y.

J. S. & M. Peckham, Utica, N. Y.

Empire Plow Company, Cleveland, O., steel.

Kilbourne & Jacobs Manufacturing Company, Columbus, O., Columbus solid steel,
Doty revolving.

York Manufacturing Company, Portsmouth, O., York patent.

American Steel Scraper Company, Sydney, O., Victor, Slusser, Improved Cham-
pion, Favorite. See page 173.

Sidney Steel Scraper Company, Sidney, O., Haslup's.

Slusser-McLean Scraper Company, Sidney, O., Leader.

American Road Machine Company, Kennett Square, Pa.

St. Albans Foundry, St. Albans, Vt.

Wm. H. May & Son, Alexandria, Va.

WHEEL SCRAPERS.

F. C. Austin Manufacturing Company, corner Carpenter street and Carroll avenue,
Chicago, Ill., Buck.

Morrison Manufacturing Company, Ft. Madison, Ia., Deevy's patent.

Western Wheel Scraper Company, Mt. Pleasant, Ia., Western.

Kilbourne & Jacobs Manufacturing Company, Columbus, O., K. & J. pressed
bowl and Little Giant.

Fay Manufacturing Company, Elyria, O., Fay sulky.

American Steel Scraper Company, Sidney, O., Climax, Little Triumph. See page
173.

Sidney Steel Scraper Company, Sidney, O., Haslup's.

Slusser-McLean Scraper Company, Sidney, O., Hummer.

American Road Machine Company, Kennett Square, Pa.

SHEEP SHEARS.

G. & M. Nolin, Skowhegan, Me.

Henry Seymour Cutlery Company, Holyoke, Mass., Diamond Edge.

SCYTHES.

Winsted Manufacturing Company, Winsted, Conn.

Beardsley Scythe Company, West Winsted, Conn.

North Wayne Tool Company, Hallowell, Me., Harvey's patent corrugated, Brook's
Little Giant.

Dunn Edge Tool Company, Oakland, Me.

G. & M. Nolin, Skowhegan, Me., Skowhegan.

Marston Patent Scythe Company, Lebanon, N. H.

New London Scythe Company, Scytheville, N. H., Crown Royal, Clipper, Colby,
Dutchman.

Auburn Manufacturing Company, Auburn, N. Y.

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SCYTHES (Continued).

David Wadsworth & Son, Auburn, N. Y., all kinds.
S. A. Millard Manufacturing Company, Clayville, N. Y., Champion, Clipper, Ex-Rib, Plain Truth.
Carter & Co., Scranton, Pa.

DAIRY TANKS.

Fairbanks, Morse & Co., Chicago., Ill. See page 168.
Avery Planter Company, Peoria, Ill.
D. H. Roe & Co., 253 Kinzie street, Chicago, Ill.
¹Cornish, Curtis & Greene, Ft. Atkinson, Wis., Curtis Refrigerator.

STAPLE PULLERS.

Hunt, Helm & Ferris, Harvard,¹Ill.

TANK HEATERS.

U. S. Wind Engine & Pump Company, Batavia, Ill., I. X. L. See index to ads.
Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, ¹Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Ft. Worth Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.
Rice & Whitacre Manufacturing Company, 47-49 S. Canal street, Chicago, Ill. See page 64.
Fairbanks, Morse & Co., Chicago, Ill., Decatur. See page 168.
Staver & Abbott Manufacturing Company, Chicago, Ill., Staver.
Woodmanse & Hewett Manufacturing Company, Freeport, Ill., Woodmanse.
Avery Planter Company, Peoria, Ill.
Shoudy² Manufacturing Company, Rockford, Ill.
Sandwich Enterprise Company, Sandwich, Ill., Enterprise.
E. B. Winger, South¹Chicago, Ill., Royal and Jumbo.
Flint & Walling Manufacturing Company,¹Kendallville, Ind.
D. Stutzman, Ligonier, Ind., Safety.
J. K. Purinton & Co., Des Moines, Ia., Purinton's.
A. McGowen, Independence, Ia.
O. G. Stowell, Delavan, Wis., Stowell's Removable.
Winship Manufacturing Company, Racine, Wis. See index to ads.

TANKS FOR WIND MILLS, WATERING STOCK, ETC.

M. C. Jackson, Florin, Cal., Jackson.
A. M. Abbott, Stockton, Cal.
Van Winkle Gin & Machine Company, Atlanta, Ga., and Dallas, Tex.
Challenge Wind Mill & Feed Mill Company, Batavia, Ill.
Star Manufacturing Company, Carpentersville, Ill.
Fairbanks, Morse & Company, Chicago, Ill. See page 168.
Lamb & Company, Freeport, Ill. See page 92.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

TANKS FOR WIND MILLS, WATERING STOCK, ETC. (Continued).

U. S. Wind Engine & Pump Company, Batavia, Ill., stock, milk cooling, storage and house. See index to ads.

Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Ft. Worth, Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.

Woodmanse & Hewett Manufacturing Company, Freeport, Ill.

May Bros., Galesburgh, Ill.

Automatic Mower & Manufacturing Company, Harvey, Ill.

L. Leach, Joliet, Ill.

Marseilles Manufacturing Company, Marseilles, Ill. See page 36.

Mt. Pulaski Wind Mill Company, Mt. Pulaski, Ill.

Sandwich Enterprise Company, Sandwich, Ill., Enterprise, all sizes. See page 166.

Monitor Manufacturing Company, Auburn, Ind.

Zimmerman Manufacturing Company, Auburn, Ind.

Flint & Walling Manufacturing Company, Kendallville, Ind., all kinds and sizes.

Lima Manufacturing Company, Lima, Ind.

Carter Bros., Des Moines, Ia.

Keokuk Wind Engine Company, Keokuk, Ia.

A. B. Clippinger & Bro., Centralia, Kan.

Progress Engine & Machine Works, Summerfield, Md., cypress, cedar, iron.

James C. Keith, Battle Creek, Mich.

Industrial Manufacturing Company, Buchanan, Mich.

Strait Wind Mill Company, Galesburgh, Mich.

Barlow & Youmans, Galesburgh, Mich.

The Phelps & Bigelow Wind Mill Company, Kalamazoo, Mich.

Thomas Clyne, Vassar, Mich.

Anderson Bros., Moorehead, Minn.

Dempster Mill Manufacturing Company, Beatrice, Neb.

Spencer Manufacturing Company, Blue Springs, Neb.

Geneva Iron & Wind Mill Company, Geneva, Neb.

Geo. F. Kregel, Nebraska City, Neb.

A. W. Stevens & Son, Auburn, N. Y., Stevens.

Foote & Co., Nunda, N. Y.

C. Aultman & Co., Canton, O.

Springfield Machine Company, Springfield, O., all kinds.

Gilbert Hunt & Co., Walla Walla, Wash.

Eclipse Wind Engine Company, Beloit, Wis., railroad and stock.

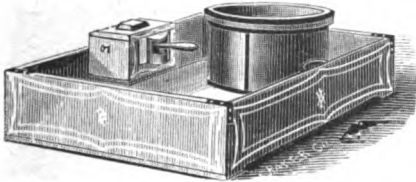
O. G. Stowell, Delavan, Wis.

Baker Manufacturing Company, Evansville, Wis., round and square.

Winship Manufacturing Company, Racine, Wis. See index to ads.

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THE NESMITH



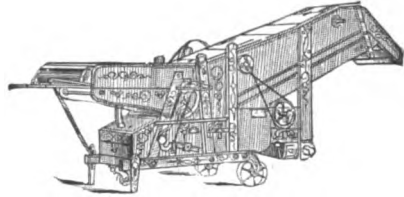
Patent Grain Register

For Threshing Machines.

RETAIL PRICE \$12.00.

For terms, prices and discounts
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C. L. NESMITH,
WASHINGTON, ILL.



To all whom this may concern :

GENTLEMEN :—With these few lines I wish to call the attention of every intelligent farmer, dealer, or thresherman, or whoever may be the lucky one to get this favored, precious, valuable book, the FARM IMPLEMENT NEWS BUYER'S GUIDE in their possession, to my New "Monitor" Separator, of which the above cut is an outside view.

For further particulars send for circulars.

I also make the "Iron Ring" Horse Powers with my patent "Universal" Horse Power Jacks in three sizes, No. 1, No. 2 and No. 3, suitable for all purposes.

Also my Patent Celler Gratings; Metallic Hog Troughs, for feeding swine, etc.; six sizes of Pump Troughs and Large Stock Watering Troughs, all of cast iron, etc.

Please send for circulars and price lists.

Yours truly,

AARON WISSLER,

Brunnerville, Lancaster Co., Pa.

Brunnerville Agricultural Works.

TANKS FOR WIND MILLS, WATERING STOCK, ETC. (Continued).

R. N. Rasmussen, Randolph, Wis.

The Althouse-Wheeler Company, Waupun, Wis. See index to ads.

Winchester & Partridge Manufacturing Company, Whitewater, Wis.

THRESHERS.

Harrison Machine Works, Belleville, Ill., Belleville.

Pitts Manufacturing Company, Marseilles, Ill., New Chicago Pitts, Black Hawk.

Peoria Engine & Thresher Company, Peoria, Ill.

Heilman Machine Works, Evansville, Ind.

F. Kitten, Ferdinand, Ind.

Eagle Machine Works Company, Indianapolis, Ind.

M. Rumely Company, La Porte, Ind., New Rumely. See page 64.

Robinson & Co., Richmond, Ind., Bonanza.

Gaar, Scott & Co., Richmond, Ind., three way crank. See page 64.

John S. Davis' Sons, Davenport, Ia., Oscillator. See page 180.

Whitman Agricultural Works, Auburn, Me., Whitman's.

Hagerstown Iron Works, Hagerstown, Md., Imperial.

Hagerstown Steam Engine & Machine Company, Hagerstown, Md., Empire.

Nichols & Shepard Company, Battle Creek, Mich., New Vibrator.

Advance Thresher Company, Battle Creek, Mich., Advance.

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

THE
“CHESAPEAKE”

“STITCHED CANVAS BELTING”

**IS ACKNOWLEDGED THE
BEST IN THE WORLD**

FOR THRESHING MACHINE

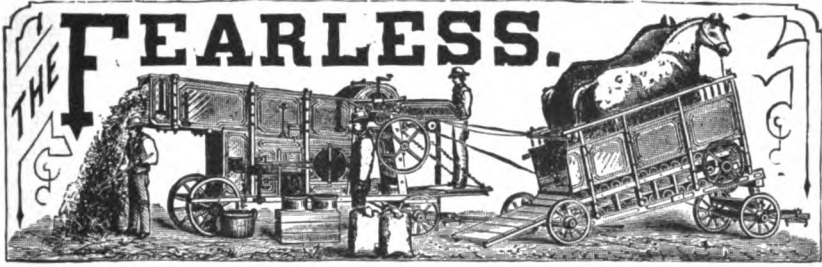
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WRITE FOR SAMPLES,
PRICES, ETC., TO

THE
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BALTIMORE, MD.

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The only machine that received an award on both Horse-power and Thresher and Cleaner, at the Centennial Exhibition: was awarded the two last Gold Medals given by the New York State Agricultural Society on Horse-powers and Threshers; and is the only Thresher selected from the vast number built in the United States, for illustration and description in "Appleton's Cyclopedia of Applied Mechanics," recently published, thus adopting it as the standard machine of this country. **Buy the best. It is cheapest in the end. Catalogue sent free. Address: MINARD HARDER, Cobleskill, Schoharie Co., N. Y.**
Also straw-preserving Rye-threshers, Clover-hullers, Fodder-cutters, Feed-mills, Panning-mills, and Saw-machines; all of the best in market.
The Fearless Horse-powers are the most economical and best Powers built for the running of Ensilage-cutters and Cotton-gins, and for general farm and plantation use.

THRESHERS (Continued).

The Den Bleyker Manufacturing Company, Kalamazoo, Mich., Best-of-all.
 Upton Manufacturing Company, Port Huron, Mich.
 Roberts, Throp & Co., Three Rivers, Mich., Invincible.
 Minneapolis Threshing Machine Company, Minneapolis, Minn., Victory.
 Minnesota Thresher Manufacturing Company, Stillwater, Minn., Minnesota Chief.
 Kingsland & Douglas Manufacturing Company, St. Louis, Mo., Kingsland-Douglas.
 H. Reinstedler, St. Louis, Mo.
 Hiram Deats, Jr., Pittstown, N. J., Little Wonder.
 New Jersey Agricultural Works, Trenton, N. J., Butterworth self binding straw preserving thresher for all kinds of grain, Butterworth New Low Built Vibrator, Butterworth self binding rye threshers.
 Trenton Agricultural Works (B. Gill & Son), Trenton, N. J., Peerless.
 The Birdsall Company, Auburn, N. Y., Cayuga Chief.
 A. W. Stevens & Son, Auburn, N. Y., Stevens.
 The Pitts Agricultural Works, Buffalo, N. Y., Buffalo Pitts.
 Schoharie County Agricultural Works (S. K. Campbell), Central Bridge, N. Y.
 Minard Harder, Cobleskill, N. Y., Fearless. See ad. above.
 W. Eddy & Sons, Greenwich, N. Y.
 Groton Bridge & Manufacturing Company, Groton, N. Y., New Model.
 St. Johnsville Agricultural Works (M. Williams, prop.), St. Johnsville, N. Y.
 The Westinghouse Company, Schenectady, N. Y., threshers and combined clover hullers and grain threshers.
 C. Aultman & Co., Canton, O., New Model, Star.
 The Aultman & Taylor Company, Mansfield, O., Globe, Dixie.
 Huber Manufacturing Company, Marion, O., Huber.
 Marion Manufacturing Company, Marion, O., Leader.
 L. Spence, Martin's Ferry, O., Ohio double cleaner and endless apron, Vibrator, Champion.

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325 Dearborn St., CHICAGO, ILL.

THRESHERS (Continued).

Russell & Co., Massillon, O., New Massillon, Massillon Cyclone, Massillon.

C. & G. Cooper & Co., Mt. Vernon, O.

Scheidler Machine Works, Newark, O., Climax.

Orrville Machine Company, Orrville, O., Champion combined thresher and clover hullers, low down Champion.

O. S. Kelly Company, Springfield, O. See page 93.

Ohio Thresher & Engine Company, Upper Sandusky, O., Ohio.

Aaron Wissler, Brunnerville, Pa., Monitor, Young Chief. See page 177.

Roberts Machine Company, Collegeville, Pa., Dwarf.

J. Robison & Son, Curwensville, Pa.

Daniel Hulshizer, Doylestown, Pa., Doylestown Jr.

A. Buch & Son, Elizabethtown, Pa., Pioneer.

Krauss Bros., Geryville, Pa., New Champion.

Crowell Manufacturing Company, Greencastle, Pa.

Harrisburg Car Manufacturing Company Harrisburg, Pa.

Heebner & Sons, Lansdale, Pa., Heebner, Little Giant, Pennsylvania.

John N. Chalfant & Son, Lenover, Pa.

R. I. Schlabach, Nazareth, Pa., New Champion.

A. Baker & Co., Newtown, Pa., Fenton and Junior, Newtown.

W. L. Boyer & Bro., Germantown avenue and Diamond street, Philadelphia, Pa., Union; also rye threshers.

The Ellis Keystone Agricultural Works, Pottstown, Pa., Ellis Champion.

Lessig & Bro. Agricultural Works, Reading, Pa.

Y. C. Freed & Co., Royersford, Pa.

E. B. Marsh & Bro., Snyder'sville, Pa.

F. P. Avery, Tunkhannock, Pa.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

THRESHERS (Continued).

S. S. Messinger & Son, Tatamy, Pa., Empire.

Frick Company, Waynesborough, Pa., Eclipse Vibrating.

Geiser Manufacturing Company, Waynesborough, Pa., Geiser, New Peerless, separators and vibrating.

Pennsylvania Agricultural Works (A. B. Farquhar Company, Ltd.), York, Pa., Farquhar's.

A. W. Gray's Sons, Middletown Springs, Vt.

St. Albans Foundry, St. Albans, Vt.

B. F. Rollins, St. Johnsbury, Vt.

Stephen G. Cree, Wheelock, Vt.

Edinburgh Agricultural Works, Edinburgh, Va., Pride of Shenandoah.

H. M. Smith & Co., Richmond, Va., Richmond.

Cardwell Machine Company, Richmond, Va., Cardwell's wheat, rice, Creasey's peanut.

J. S. Rowell Manufacturing Company, Beaver Dam, Wis., Tiger.

Smith Manufacturing Company, La Crosse, Wis., Eagle and Clipper.

J. I. Case Threshing Machine Company, Racine, Wis., Agitator.

WAGON LOADERS FOR THRESHERS.

Minneapolis Threshing Machine Company, Minneapolis, Minn.

CORN THRESHERS.

Ray Implement Company, Burlington, Ia., sheller, cleaner, separator and fodder cutter combined.

BROOM CORN SCRAPERS.

G. D. Colton & Co., Galesburgh, Ill., chain feed and hand feed.

J. H. Dakin, Schenectady, N. Y.

THRESHERS FOR BEANS.

Charles H. Bidwell, Medina, N. Y., Bidwell.

A. Johnson, Waterport, N. Y., Johnson's.

Luckey & Co., Paris, Tenn., Luckey Improved.

BEAN HARVESTERS.

American Harrow Company, Detroit, Mich., New American.

The Castree-Mallery Company, Flint, Mich., Yocorn.

H. M. Smith & Co., Richmond, Va., Savage's Improved.

BROOM CORN PLANTERS.

John H. Dakin, Schenectady, N. Y.

BROOM CORN PRESSES.

G. D. Colton & Co., Galesburgh, Ill.

John H. Dakin, Schenectady, N. Y.

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FLAX REELS AND CLEANERS.

Novelty Iron Works, Dubuque, Ia. See index to ads.

E. P. Dickey Racine Fanning Mill Company, Racine, Wis.

Johnson & Field Company, Racine, Wis., Racine. See page 70.

E. H. Pease Manufacturing Company, Racine, Wis., combination flax and grain cleaners, Bamber flax reels. See page 69.

THRESHER TEETH.

Whitman & Barnes Manufacturing Company, Akron, O., Syracuse, N. Y., Canton, O., St. Catharines, Ont.

Rhode Island Tool Company, Providence, R. I.

C. B. Herrick & Co., Racine, Wis.

THRESHER AND ENGINE SUPPLIES.

R. R. Howell & Co., Minneapolis, Minn.

C. B. Herrick & Co., Racine, Wis.

CLOVER HULLERS.

Gaar, Scott & Co., Richmond, Ind., Gaar-Scott. See page 64.

Birdsell Manufacturing Company, South Bend, Ind.

Hagerstown Steam Engine & Machine Company, Hagerstown, Md.

Hiram Deats, Jr., Pittstown, N. J.

B. Gill & Son, Trenton, N. J., Peerless.

Schoharie County Agricultural Works (S. K. Campbell), Central Bridge, N. Y., for tread powers.

Groton Bridge & Manufacturing Company, Groton, N. Y., Hawkeye.

Westinghouse Company, Schenectady, N. Y., combined clover huller and grain thresher.

Ashland Clover Huller Company, Ashland, O.

Newark Machine Company, Columbus, O., Victor.

Aultman & Taylor Company, Mansfield, O., Matchless.

Orrville Machine Company, Orrville, O., Champion combined thresher and clover hullers.

TILE HOES.

Iwan Bros., Streator, Ill.

STRAW STACKERS.

Harrison Machine Works, Belleville, Ill., Belleville.

Sattley Manufacturing Company, Springfield, Ill., Capital City See page 141.

Reeves & Co., Columbus, Ind., Reeves.

Eagle Machine Works Company, Indianapolis, Ind.

Gaar, Scott & Co., Richmond, Ind. See page 64.

C. Aultman & Co., Canton, O., Independent stackers.

Newark Machine Company, Columbus, O., Imperial.

The O. S. Kelly Company, Springfield, O., Kelly. See page 98.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

SELF FEEDERS FOR THRESHERS.

Byron Jackson, San Francisco, Cal., Jackson's.

Minneapolis Threshing Machine Company, Minneapolis, Minn., Richter & Wirtz Bros.

STALK CUTTERS.

Hapgood Plow Company, Alton, Ill. See page 143.

Challenge Wind Mill & Feed Mill Company, Batavia, Ill.

U. S. Wind Engine & Pump Company, Batavia, Ill., I. X. L. See index to ads.

Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Ft. Worth, Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.

Sucker State Drill Company, Belleville, Ill., Star.

Parlin & Orendorff Company, Canton, Ill., Canton single and double.

David Bradley Manufacturing Company, Chicago, Ill., Bradley.

Geo. W. Brown & Co., Galesburgh, Ill., Leidy, Knox.

Moline Plow Company, Moline, Ill., Moline Champion. See page 136.

Branch houses—Moline Plow Company, Kansas City, Mo., Moline, Milburn & Stoddard Company, Minneapolis, Minn., Omaha, Neb., and Des Moines, Ia.

Deere & Mansur Company, Moline, Ill., Deere.

Weir Plow Company, Monmouth, Ill.

Avery Planter Company, Peoria, Ill., Avery spiral knife.

Peru Plow & Wheel Company, Peru, Ill.

Rock Island Plow Company, Rock Island, Ill., Little Duke, Double Duke.

Sandwich Enterprise Company, Sandwich, Ill., Climax. See page 166.

Sterling Manufacturing Company, Sterling, Ill., Western single row, Eureka and Sterling two row.

Monahan & Banowetz, Charlotte, Ia.

Eagle Manufacturing Company, Davenport, Ia., Eagle.

Norwegian Plow Company, Dubuque, Ia. See index to ads.

B. F. Avery & Sons, Louisville, Ky., Avery.

Wilder Manufacturing Company, Monroe, Mich.

St. Joseph Plow Company, St. Joseph, Mo.

Lehr Agricultural Company, Tremont, O., Lehr.

Hauck & Comstock, Mechanicsburgh, Pa., Lion. See page 42.

J. I. Case Plow Works, Racine, Wis.

TOBACCO MACHINERY.

Jno. McGowan Company, 42 Central avenue, Cincinnati, O.

Jas. L. Haven Company, Cincinnati, O.

H. M. Smith & Co., Richmond, Va.

Cardwell Machine Company, Richmond, Va., Cardwell.

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TOBACCO PRESSES.

Ford Giant Press Company, Louisville, Ky., Little Giant and Big Giant.
Hydraulic Press Manufacturing Company, Mt. Gilead, O.

TOBACCO HOEING MACHINES.

Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass., Prout's.

TOBACCO RIDGERS.

O. W. Goslee, Buckingham, Conn.

TOBACCO TRANSPLANTERS.

Victor P. Richardson, Janesville, Wis., Smith's Patent.

HAND TRUCKS.

Dowagiac Manufacturing Company, Dowagiac, Mich.
Wilder Manufacturing Company, Monroe, Mich.

TRIMMING KNIVES.

E. S. & F. Bateman, Grenloch, N. J., Eagle.

BAGGAGE, STORE AND WAREHOUSE TRUCKS.

Benicia Agricultural Works, Benicia, Cal., Benicia.
Kilbourne & Jacobs Manufacturing Company, Columbus, O., all kinds.

HARVESTERS.

Bovee Harvesting Machine Company, Tama, Ia., Bovee's.

COMBINED HARVESTERS.

Benicia Agricultural Works, Benicia, Cal., Young's, Harvest King.
Daniel Best Agricultural Works, San Leandro, Cal., Best, Driver.
Byron Jackson, San Francisco, Cal., Driver.
J. C. Hoult & Sons, Stockton, Cal., Improved Centennial.
Matteson & Williamson Manufacturing Company, Stockton, Cal., Harvest Queen
Stockton Combined Harvester & Agricultural Works, Stockton, Cal., Houser.

STEAM POWER COMBINED HARVESTER.

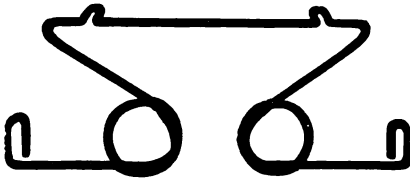
Benicia Agricultural Works, Benicia, Cal., Berry's.

FARM WAGONS.

Florence Wagon Company, Florence, Ala., Florence.
Blount & Bell, East Point, Ga.
W. T. Stapler, Harmony Grove, Ga.
Coweta Wagon Company, Newnan, Ga., Coweta.
Newton Wagon Company, Batavia, Ill., Newton.
L. M. Burch, Baylis, Ill.
Rossow Bros., 1135 Otto street, Chicago, Ill.
Weber Wagon Company, Box 550, Chicago, Ill., Weber.
Schuttler & Hotz, Chicago, Ill.

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The King of Seat Springs.



Every pair warranted for **TWO** years.
Simple, Durable, Saves Cost and Labor in
applying. No spring bars or seat
hooks required.

ONLY FOUR BOLTS NEEDED

To fasten to seat and wagon. Made of one continuous piece
of steel. No weld, joint or rivet to weaken or cause break-
age. Oil tempered, fully tested and warranted.
Can be attached to seat ready for use in five
minutes, at a cost of 2½ cents.

**CHEAPEST,
LIGHTEST and
BEST
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Wagon Seat with King Patent Springs.

Seat with King Spring
weighs only little more
than **ONE-HALF** of others

We want **LIVE DEALERS** IN
EVERY TOWN IN THE UNITED
STATES to handle our Goods.

Write for Prices.

Chattanooga Patent Wagon Bolster Spring. Made
in all sizes—800 to 7,000 pounds.



Solid Crucible Steel, Fully Warranted.

The VEHICLE SPRING & MFG. CO., - Cincinnati, Ohio.

FARM WAGONS (Continued).

Snyder Wagon Works, Danville, Ill.

McCallum Steel Wheel Wagon Company, Elgin, Ill., McCallum.

J. McCallum Manufacturing Company, Elgin, Ill., McCallum iron and steel
wheel. See page 186.

Sheer & Schweikert, Lincoln, Ill.

Macomb Wagon Company, Macomb, Ill.

Moline Wagon Company, Moline, Ill.

King & Hamilton Company, Ottawa, Ill.

T. & H. Smith & Co., Pekin, Ill.

Peter Sames, Rockford, Ill.

A. B. Spies, Sterling, Ill.

Cress Bros. & Co., Warsaw, Ill., Warsaw.

Oldendorph Bros., Waterloo, Ill., Oldendorph.

Samuel Rhoades, Anderson, Ind.

Davidson, Blount & Co., Evansville, Ind., Blount.

Olds Wagon Works, Ft. Wayne, Ind.

Joseph W. Buchanan, Indianapolis, Ind.

Studebaker Bros. Manufacturing Company, South Bend, Ind.

Order all your wagons with **KING PAT. SEAT SPRINGS**. Every pair warranted for two
It will pay you to handle years. See ad. page 185.

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McCALLUM STEEL WHEEL WAGON

IS CLIMATE PROOF.



Runs Lighter. Weighs less, is CHEAPER.

More convenient, more easily
sold than any wagon on earth.

NO MORE SETTING TIRES.

WARRANTED FOR TEN YEARS.

Special inducements to first to introduce. Get
Catalogue.

McCALLUM STEEL WHEEL WAGON CO., - - Elgin, Ill., U. S. A.

FARM WAGONS (Continued).

Jno. A. Chockelt, South Bend, Ind.

South Bend Wagon Company, South Bend, Ind., South Bend.

A. Coquillard (Estate of), South Bend, Ind.

Barry Wagon & Carriage Manufacturing Company, Valparaiso, Ind., Barry.

J. H. Wagner & Co., Vernon, Ind.

Huggins & Griffith, Anamosa, Ia., Huggins & Griffith.

Funk & Hertzler, Burlington, Ia.

Burg Wagon Company, Burlington, Ia., Burg.

A. A. Cooper, Dubuque, Ia.

L. Burg Manufacturing Company, Farmington, Ia.

Ketchum Wagon Company, Marshalltown, Ia., Ketchum.

Western Wheel Scraper Company, Aurora, Ill., Western.

Christoph Wilharm, Tripoli, Ia.

Kansas Manufacturing Company, Leavenworth, Kan., Caldwell.

Hertwick, Baltzer & Co., Hickman, Ky., Hickman.

Kentucky Wagon Manufacturing Company, Louisville, Ky., Old Hickory, Tennessee.

F. A. Ames & Co., Owensboro, Ky.

Owensboro Wagon Company, Owensboro, Ky., Owensboro.

Rough Bros. Wagon Works, Buchanan, Mich., Buchanan.

Flint Wagon Company, Flint, Mich.

Joe Davis & Son, Flushing, Mich.

Henry M. Smith, Frankfort, Mich.

Harrison Wagon Works (Wm. Harrison, prop.), Grand Rapids, Mich., Harrison.

Austin, Tomlinson & Webster Manufacturing Company, Jackson, Mich.

Lansing Wagon Works, Lansing, Mich.

W. J. Campbell, Port Austin, Mich., Campbell.

Neal, Johns & Co., Lake City, Minn., Lake City.

Anderson Bros., Moorhead, Minn.

Red Wing Wagon Company, Red Wing, Minn.

Minnesota Thresher Manufacturing Company, Stillwater, Minn., Chief.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

FARM WAGONS (Continued).

Winona Wagon Company, Winona, Minn., Rushford tubular axle.
 A. K. Wadley, Arkabutla, Miss.
 Love Wagon Company, Durant, Miss., Love.
 H. Wedepohl, Berger, Mo.
 Columbia Wagon Company, Columbia, Mo.
 Lang & Bro., Farmington, Mo.
 Marvin Mills, Memphis, Mo.
 Lansche & Korth, Truxton, Mo.
 B. W. Bramer, Fabius, N. Y., Platform Democrats.
 Williams Bros., Ithaca, N. Y., Ithaca. See page 65.
 W. H. & D. C. Conklin, Olean, N. Y.
 Champion Wagon Company, Owego, N. Y., Champion.
 Riverhead Agricultural Works, Riverhead, N. Y.
 A. Bailey, Sand Lake, N. Y.
 North Carolina Plow Company, Cary, N. C., Cary, Border Alliance.
 Piedmont Wagon Company, Hickory, N. C., Piedmont.
 Edgcombe Agricultural Works, Tarborough, N. C.
 Standard Wagon Company, Cincinnati, O.
 Schlosser Buggy Company, Defiance, O.
 Turnbull Wagon Company, Defiance, O., Turnbull.
 Milburn Wagon Company, Toledo, O.
 Geo. E. Bechtolt, Urbana, O.
 Brown Manufacturing Company, Zanesville, O., Brown.
 Acme Wagon Company, Emigsville, Pa., Acme, Little Gem.
 Sutton Bros. & Bell, Indiana, Pa., Indiana.
 Geo. S. Garth & Sons, Mill Hall, Pa., Garth.
 Lee Bros., Watertown, S. Dak., Kampeska.
 Hoppes & Edwards, Erin, Tenn., H. & E.
 Cherry, Morrow & Co., Nashville, Tenn., Tennessee.
 F. W. Schuerenberg, Brenham, Tex.
 N. L. Anderson, Winnsborough, Tex.
 S. M. Macomber, Adams, Vt.
 Jonathan Bugbee, Hartford, Vt.
 Wise Wagon Works, Buena Vista, Va., Wise.
 Look & Lincoln, Marion, Va., Look & Lincoln.
 H. O. Kerns, Sutherlin, Va.
 H. H. Hulfish, The Plains, Va.
 Ruka Bros. Manufacturing Company, Boscobel, Wis., Ruka, Boscobel.
 D. W. Scobie, Cambridge, Wis., Cambridge.
 B. F. & H. L. Sweet, Fond du Lac, Wis.

Order all your wagons with **KING PAT. SEAT SPRINGS** Every pair warranted for two years. See ad. page 185.
 It will pay you to handle

IT IS TO YOUR INTEREST TO MENTION THIS BOOK WHEN WRITING TO MANUFACTURERS.

FARM WAGONS (Continued).

La Belle Wagon Works, South Superior, Wis.
Northwestern Manufacturing Company, Ft. Atkinson, Wis.
L. O. Amondson, Gratiot, Wis., Amondson.
O. C. Vaughn, Jefferson, Wis., Jefferson.
Bain Wagon Company, Ltd., Kenosha, Wis., Bain.
Smith Manufacturing Company, La Crosse, Wis., La Crosse.
Hirsch Bros., Milwaukee, Wis.
Monroe Manufacturing Company, Monroe, Wis.
H. J. Benson, Prairie du Chien, Wis.
Mitchell & Lewis Company, Ltd., Racine, Wis., Mitchell. See inside back cover.
Fish Bros. Wagon Company, Racine, Wis.
R. N. Rasmussen, Randolph, Wis.
Stoughton Wagon Company, Stoughton, Wis.

FARM WAGON SEATS.

Vehicle Spring & Manufacturing Company, Cincinnati, O., complete with King springs. See page 185.

DUMP CARTS.

M. P. Henderson & Son, Stockton, Cal.
Blount & Bell, East Point, Ga.
F. C. Austin Manufacturing Company, corner Carpenter street and Carroll avenue, Chicago, Ill.
Schuttler & Hotz, Chicago, Ill.
Studebaker Bros. Manufacturing Company, South Bend, Ind.
Kentucky Wagon Manufacturing Company, Louisville, Ky.
Owensboro Wagon Company, Owensboro, Ky., Ideal.
Ames Plow Company, Boston, Mass., and New York, N. Y.
Austin, Tomlinson & Webster Manufacturing Company, Jackson, Mich.
Winona Wagon Company, Winona, Minn.
North Carolina Plow Company, Cary, N. C., Cary.
Acme Wagon Company, Emigsville, Pa., Acme.
Wise Wagon Works, Buena Vista, Va., Wise.
B. F. & H. L. Sweet, Fond du Lac, Wis.
Bain Wagon Company, Ltd., Kenosha, Wis.
Fish Bros. Wagon Company, Racine, Wis.
Mitchell & Lewis Company, Ltd., Racine, Wis. See inside back cover.

HEAVY FARM CARTS.

Benicia Agricultural Works, Benicia, Cal., Benicia.
Coweta Wagon Company, Newnan, Ga., Coweta.
South Bend Wagon Company, South Bend, Ind.
Milburn Wagon Company, Toledo, O.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

HEAVY FARM CARTS (Continued).

Kentucky Wagon Manufacturing Company, Louisville, Ky., Old Hickory.
 Ames Plow Company, Quincy Hall, Boston, Mass., and New York, N. Y.
 Edgcombe Agricultural Works, Tarborough, N. C.
 Wise Wagon Works, Buena Vista, Va., Wise.

WAGON HARDWARE AND CASTINGS.

Racine Malleable & Wrought Iron Company, Racine, Wis. See page 164.
 Hurlbut Manufacturing Company, Racine, Wis., wagon hardware, locks for wagon
 brakes, Hurlbut. See page 108.

WAGON BRAKES.

Geo. White, Rock Island, Ill.
 The S. Freeman & Sons Manufacturing Company, Racine, Wis., Freeman's, Boss.
 Racine Malleable & Wrought Iron Company, Racine, Wis., Deitz, Racine and Jen-
 sen. See page 164.
 Hurlbut Manufacturing Company, Racine, Wis. See page 108.

WAGON BOXES AND RACKS COMBINED.

J. McCallum Manufacturing Company, Elgin, Ill., McCallum. See page 186.

WAGON GEARS.

Oneida Manufacturing Company, Oneida, N. Y., New Eclipse single spring, Du-
 plex, Giant side and end spring, Premier and Brewster buggy gear.
 The Selle Gear Company, Akron, O., Selle's platform, giant truck, three spring and
 combination wagon gears.

DUMPING WAGONS.

Weber Wagon Company, Box 550, Chicago, Ill., American.

WAGON TONGUE SUPPORTS.

Schuttler & Hotz, Chicago, Ill., M. Conrad's patent.
 Weber Wagon Company, Box 550, Chicago, Ill.
 The Haggard Wagon Spring Company, La Fayette, Ind.

WAGON SEAT SPRINGS.

Vehicle Spring & Manufacturing Company, Cincinnati, O., King patent. See
 page 185.

SPRING WAGONS.

Truman, Hooker & Co., San Francisco, Cal., California.
 San Jose Agricultural Works, San Jose, Cal.
 W. S. Frazier & Co., Aurora, Ill., skeleton and light wagons.
 Newton Wagon Company, Batavia, Ill., Newton.

Order all your wagons with **KING PAT. SEAT SPRINGS** Every pair warranted for two
 It will pay you to handle years. See ad. page 185.

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SPRING WAGONS (Continued).

L. M. Burch, Baylis, Ill.
Hyde & Martens, Bloomington, Ill.
Weber Wagon Company, Box 550, Chicago, Ill.
Snyder Wagon Works, Danville, Ill.
Henney Buggy Company, Freeport, Ill.
Craver, Steele & Austin, Harvey, Ill.
Sheer & Schweikert, Lincoln, Ill.
Macomb Wagon Company, Macomb, Ill.
Moline Buggy Company (J. H. Wilson, prop.), Moline, Ill.
Moline Wagon Company, Moline, Ill.
D. M. Sechler Carriage Company, Moline, Ill.
T. & H. Smith & Co., Pekin, Ill.
Kirkwood, Miller & Co., Peoria, Ill.
Hynes Carriage Company, Quincy, Ill.
The Eureka Company, Rock Falls, Ill., Eureka road and spring wagons.
A. B. Spies, Sterling, Ill.
Connersville Buggy Company, Connersville, Ind.
Jos. W. Buchanan, Indianapolis, Ind.
Parry Manufacturing Company, Indianapolis, Ind., Parry.
John A. Chockelt, South Bend, Ind.
Studebaker Bros. Manufacturing Company, South Bend, Ind.
Birdsell Manufacturing Company, South Bend, Ind.
A. Coquillard (estate of) South Bend, Ind., Coquillard.
Barry Wagon & Carriage Manufacturing Company, Valparaiso, Ind., Champion,
Duplex, Barry Platform.
Huggins & Griffith, Anamosa, Ia., Huggins & Griffith.
Funk & Hertzler, Burlington, Ia.
Burg Wagon Company, Burlington, Ia., Burg.
Des Moines Buggy Company, Des Moines, Ia.
Fred. Garberg, Elliott, Ia., Garberg.
L. Burg Manufacturing Company, Farmington, Ia.
Cass & McArthur, Harlan, Ia.
Rhoades & Carmean, Marshalltown, Ia.
L. B. Johns, Abilene, Kan.
Kansas Manufacturing Company, Leavenworth, Kan., Caldwell, Gold Medal.
Cartwright Spring Wagon Works, Louisville, Ky.
F. A. Ames & Co., Owensboro, Ky.
Owensboro Wagon Company, Owensboro, Ky., Owensboro.
Rumsey Manufacturing Company, Detroit, Mich., Peerless.
Joe Davis & Son, Flushing, Mich.
Collins Manufacturing Company, Jackson, Mich. See index to ads.
J. J. Deal, Jonesville, Mich.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

SPRING WAGONS (Continued).

Kalamazoo Wagon Company, Kalamazoo, Mich., Drummer's.
 Michigan Buggy Company, Kalamazoo, Mich.
 Lansing Wagon Works, Lansing, Mich., Lansing Duplex.
 Gate City Carriage Company, Winona, Minn., Gate City, also buckboards.
 Winona Wagon Company, Winona, Minn., Everybody half spring.
 Love Wagon Company, Durant, Miss., Love.
 H. Wedepohl, Berger, Mo.
 Geo. K. Oyler & Co., St. Louis, Mo.
 Schelp Wagon & Carriage Company, St. Louis, Mo., End-spring and Rideabout combination.
 D. W. Haydock, St. Louis, Mo.
 Haydock Bros., St. Louis, Mo.
 Bauer-Walter Buggy & Carriage Company, St. Louis, Mo.
 Lansche & Korth, Truxton, Mo.
 Binghamton Wagon Company, Binghamton, N. Y.
 Cortland Wagon Company, Cortland, N. Y.
 H. M. Willis, East Williston, L. I., N. Y., Runabouts.
 Groton Carriage Company, Groton, N. Y. See index to ads.
 Whitfield & McCormick, Penn Yan, N. Y., Hayes.
 Sullivan Bros., Rochester, N. Y., Dandy.
 R. M. Bingham & Co., Rome, N. Y.
 A. Bailey, Sand Lake, N. Y.
 Seneca Falls Wagon Company, Seneca Falls, N. Y.
 Orville H. Short & Co., Syracuse, N. Y., Runabout.
 H. A. Moyer, Syracuse, N. Y., Platform, Perfected Runabout, Gold Medal.
 Bradley & Co., Syracuse, N. Y., Handy.
 Whitney Wagon Works, Syracuse, N. Y.
 Waterloo Wagon Company, Ltd., Waterloo, N. Y., platform.
 H. H. Babcock Company, Watertown, N. Y.
 Excelsior Carriage Company, Watertown, N. Y.
 Watertown Spring Wagon Company, Watertown, N. Y.
 The Emerson & Fisher Company, Cincinnati, O.
 Cook Carriage Company, Cincinnati, O., spring wagons, delivery wagons, hacks.
 James & Mayer Buggy Company, Cincinnati, O., and Lawrenceburg, Ind., Lawrenceburg, J. & M.
 Enterprise Carriage Manufacturing Company, Cincinnati, O.
 Fuhrman Cart Company, Columbiana, O.
 Buckeye Buggy Company, Columbus, O.
 Scioto Buggy Company, Columbus, O.
 Schlosser Buggy Company, Defiance, O.

Order all your wagons with **KING PAT. SEAT SPRINGS** Every pair warranted for two years. See ad. page 185.
 It will pay you to handle

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RACINE ECONOMY SPRING CO.,

THE
ECONOMY"

Write the
Company for
Particulars.



SPRING WAGONS (Continued).

Mansfield Buggy Company, Mansfield, O., also buckboards.
 Milburn Wagon Company, Toledo, O.
 Hoppes & Edwards, Erin, Tenn.
 Look & Lincoln, Marion, Va.
 B. F. & H. L. Sweet, Fond du Lac, Wis.
 La Belle Wagon Works, South Superior, Wis., La Belle
 Northwestern Manufacturing Company, Ft. Atkinson, Wis
 L. O. Amondson, Gratiot, Wis., half scroll.
 Monroe Manufacturing Company, Monroe, Wis.
 Thompson Carriage Company, Ltd., Oshkosh, Wis., Climax.
 Mitchell & Lewis Company, Ltd., Racine, Wis., Mitchell. See inside back cover.
 Fish Bros. Wagon Company, Racine, Wis.
 Racine Wagon & Carriage Company, Racine, Wis., Racine, all kinds business
 wagons.
 Stoughton Wagon Company, Stoughton, Wis.

WAGON SPRINGS.

Weber Wagon Company, Box 550, Chicago, Ill.
 L. D. Pitcher, Dixon, Ill., Buck's patent.
 Haggard Wagon Spring Company, La Fayette, Ind.
 Kalamazoo Spring & Axle Company, Kalamazoo, Mich., springs for all vehicles.
 Pontiac Spring Works, Pontiac, Mich., Howard adjustable bolster spring.
 American Bolster Spring Company, 220 N. Commercial street, St. Louis, Mo.
 Youngstown Carriage & Wagon Company, Youngstown, O.
 Vehicle Spring & Manufacturing Company, Cincinnati, O., Chattanooga and
 Blaine, Patent Bolster. See page 185.
 Racine Bolster Spring Company, Racine, Wis.
 Racine Economy Spring Company, Racine, Wis., Economy. See ad. above.
 Racine Malleable & Wrought Iron Company, Racine, Wis., I. X. L. See page 164.
 Winship Manufacturing Company, Racine, Wis., Badger patented bolster spring.
 See index to ads.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

WAGON SPRINGS (Continued).

Louis A. Bonham, St. Francis, Wis., Spalding.
T. G. Mandt, Stoughton, Wis.

GEARS FOR CARRIAGES, SPRING WAGONS, ETC.

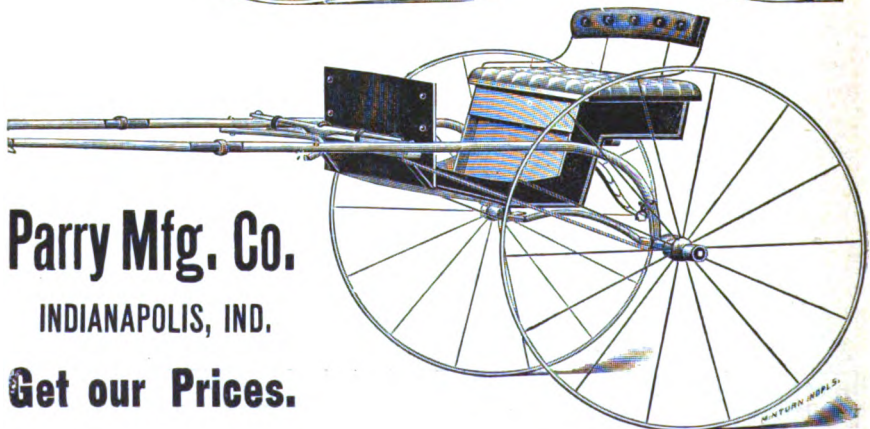
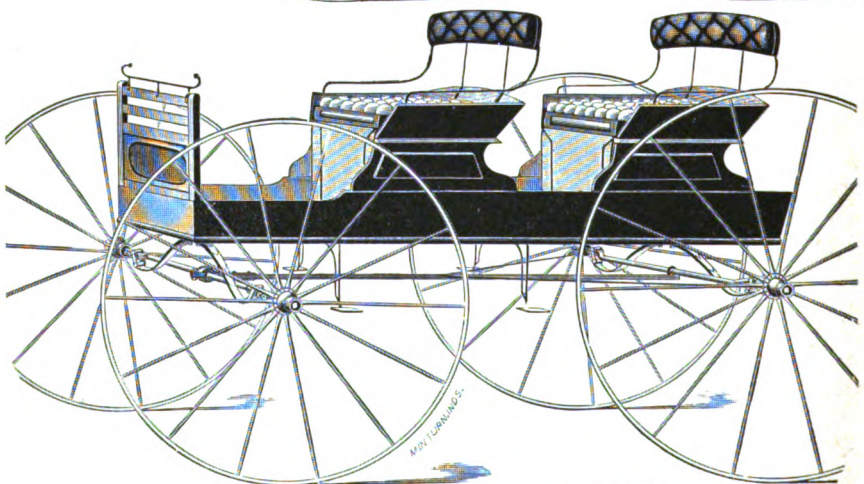
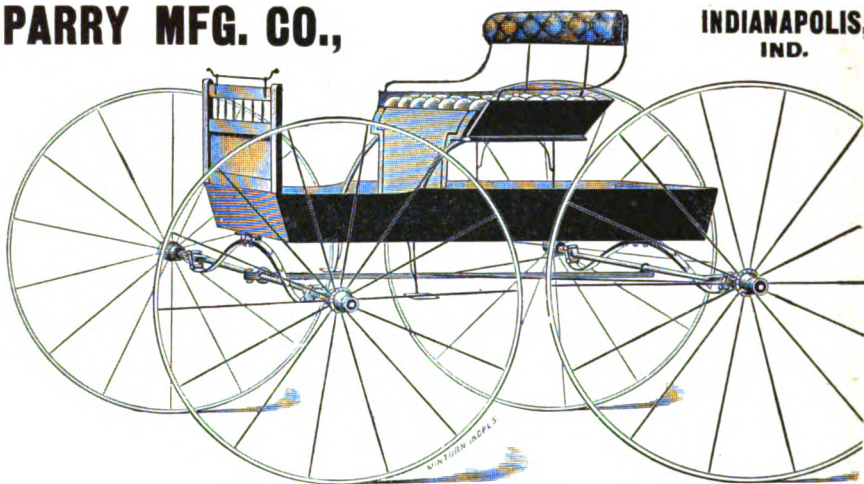
Winona Wagon Company, Winona, Minn.
Selle Gear Company, Akron, O., for all kinds of vehicles.

CARRIAGES AND BUGGIES.

M. P. Henderson & Son, Stockton, Cal.
Coweta Wagon Company, Newnan, Ga., Coweta.
L. M. Burch, Baylis, Ill.
Hyde & Martens, Bloomington, Ill.
Staver & Abbott Manufacturing Company, 383 Wabash avenue, Chicago, Ill.,
Staver.
Tudor Buggy Company, Twenty-seventh street and Shields avenue, Chicago, Ill.
Henney Buggy Company, Freeport, Ill., all styles carriages, surreys, phaetons, bug-
gies, etc.
Craver, Steele & Austin, Harvey, Ill.
Sheer & Schweikert, Lincoln, Ill.
Moline Buggy Company (J. H. Wilson, prop.), Moline, Ill.
D. M. Sechler Carriage Company, Moline, Ill., Moline Standard, Western, Moline
Extra.
Peoria Manufacturing Company, Peoria, Ill.
Kirkwood, Miller & Co., Peoria, Ill.
Hynes Carriage Company, Quincy, Ill., all styles carriages and buggies.
The Eureka Company, Rock Falls, Ill., Eureka.
Eckhart Carriage Company, Auburn, Ind.
W. H. Kiblinger, Auburn, Ind.
Connersville Buggy Company, Connersville, Ind.
McFarlan Carriage Company, Connersville, Ind.
Babcock & Viele Carriage Company, Evansville, Ind., all styles carriages, phaetons,
side bar and cut under surreys, farmers' adjustable back surreys, buckboards,
etc.
Centre Spring Buggy Company, Evansville, Ind.
Case Buggy Company, Goshen, Ind.
Stutz & Walker, Goshen, Ind.
Parry Manufacturing Company, Indianapolis, Ind., Parry. See page 194.
Indianapolis Wagon Company, Indianapolis, Ind.
La Porte Carriage Company, La Porte, Ind.
Carroll Road Cart Company, Rushville, Ind.

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It will pay you to handle years. See ad. page 185.

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PARRY MFG. CO.,**INDIANAPOLIS,
IND.****Parry Mfg. Co.****INDIANAPOLIS, IND.****Get our Prices.****MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.**

CARRIAGES AND BUGGIES (Continued).

Birdsell Manufacturing Company, South Bend, Ind.

John A. Chockelt, South Bend, Ind.

Studebaker Bros. Manufacturing Company, South Bend, Ind., all sizes, styles and grades.

A. Coquillard (estate of), South Bend, Ind.

Terre Haute Carriage & Buggy Company, Terre Haute, Ind.

The Barry Wagon & Carriage Manufacturing Company, Valparaiso, Ind., all styles.

Young, Harford & Co., Davenport, Ia.

Mason's Carriage Works, Davenport, Ia.

Des Moines Buggy Company, Des Moines, Ia., Des Moines Gear.

Kratzer Carriage Company, Des Moines, Ia.

Thos. Connelly, Dubuque, Ia.

Fred Garberg, Elliott, Ia.

L. Burg Manufacturing Company, Farmington, Ia.

Cass & McArthur, Harlan, Ia.

Rhoades & Carmean, Marshalltown, Ia.

L. B. Johns, Abilene, Kan.

F. A. Ames & Co., Owensboro, Ky.

J. T. Clarkson, Amesbury, Mass.

Armada Cart Company, Armada, Mich.

A. H. Mason, Battle Creek, Mich., also buckboards.

Rough Bros. Wagon Works, Buchanan, Mich.

Rumsey Manufacturing Company, Detroit, Mich., Rumsey.

W. A. Paterson, Flint, Mich., Flint King, and Paterson steel gear buggies.

Joe Davis & Son, Flushing, Mich.

Arthur Wood Carriage Company, Grand Rapids, Mich.

Collins Manufacturing Company, Jackson, Mich. See page 196.

J. J. Deal, Jonesville, Mich.

Winans, Pratt & Co., Kalamazoo, Mich., buckboards and road wagons.

Bevans & Barkenbus, Kalamazoo, Mich.

Cone Coupler Carriage Company, Kalamazoo, Mich.

Michigan Buggy Company, Kalamazoo, Mich.

Newton Carriage Company, Kalamazoo, Mich.

Kalamazoo Wagon Company, Kalamazoo, Mich.

A. C. Bruce, Lapeer, Mich.

Wickers, De Kruif & Co., Zeeland, Mich.

Gate City Carriage Company, Winona, Minn.

Love Wagon Company, Durant, Miss., Love.

Lang & Bro., Farmington, Mo.

T. T. Lucas, Pattonville, Mo., all kinds.

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Collins Mfg. Co.,

JACKSON, MICH.

**WHOLESALE
MANUFACTURERS**

**ROAD CARTS,
SPEED CARTS,
ROAD WAGONS,
FINE BUGGIES.**

CARRIAGES AND BUGGIES (Continued).

Haydock Bros., St. Louis, Mo.

The Bauer-Walter Buggy & Carriage Company, St. Louis, Mo., Superior.

Milburn Manufacturing Company, St. Louis, Mo., all styles.

Geo. K. Oyler & Co., St. Louis, Mo., Springfield, Peerless, Western, Bruce, Mascot.

Schelp Wagon & Carriage Company, St. Louis, Mo.

D. W. Haydock, St. Louis, Mo.

Lansche & Korth, Truxton, Mo.

Collings Carriage Company, Camden, N. J., all kinds, also buckboards.

Binghamton Wagon Company, Binghamton, N. Y.

Kingman, Sturtevant & Tarrabee, Binghamton, N. Y.

Buffalo Carriage Company, Buffalo, N. Y.

Buffalo Top Company, Buffalo, N. Y., Buffalo.

C. H. Stratton Carriage Company, Buffalo, N. Y.

Queen City Carriage Company, Buffalo, N. Y.

King & Crommie, Clayville, N. Y.

Cortland Cart & Carriage Company, Cortland, N. Y.

Cortland Manufacturing Company, Ltd., Cortland, N. Y.

Cortland Wagon Company, Cortland, N. Y.

Hitchcock Manufacturing Company, Cortland, N. Y.

Homer Wagon Company, Ltd., Cortland, N. Y.

Seymour & Nelson, Cortland, N. Y.

Groton Carriage Company, Groton, N. Y. See page 199.

Coleman Carriage & Wagon Company, Ilion, N. Y.

Oneida Carriage Works, Oneida, N. Y.

Whitfield & McCormick, Penn Yan, N. Y.

Sullivan Bros., Rochester, N. Y.

R. M. Bingham & Co., Rome, N. Y., all styles.

Orville H. Short & Co., Syracuse, N. Y., Brewster.

H. A. Moyer, Syracuse, N. Y.

Whitney Wagon Works, Syracuse, N. Y.

Bradley & Co., Syracuse, N. Y.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

CARRIAGES AND BUGGIES (Continued).

Waterloo Wagon Company, Ltd., Waterloo, N. Y.

The H. H. Babcock Company, Watertown, N. Y., all kinds fine grades, light and heavy.

Excelsior Carriage Company, Watertown, N. Y.

Watertown Spring Wagon Company, Watertown, N. Y.

Chillicothe Buggy Company, Chillicothe, O., Ladies' Favorite.

Standard Wagon Company, Cincinnati, O.

American Carriage Company, Cincinnati, O.

W. H. Bowe & Co., Cincinnati, O., Bowe spiral spring.

Baxter, Byrne & Ratterman, Cincinnati, O.

Cook Carriage Company, Cincinnati, O., all kinds and styles.

The Emerson & Fisher Company, Cincinnati, O.

Geo. Enger & Co., Cincinnati, O.

Enterprise Carriage Manufacturing Company, Cincinnati, O.

Overman Carriage Company, Cincinnati, O.

Globe Carriage Company, Cincinnati, O.

The T. T. Haydock Carriage Company, Cincinnati, O.

James & Mayer Buggy Company, Cincinnati, O., and Lawrenceburg, Ind., J. & M., Lawrenceburg.

Davis Carriage Company, Cincinnati, O., full line.

Lippelmann Carriage Company, Cincinnati, O., the Velvet vehicles, Spiral King.

National Buggy Company, Cincinnati, O.

The Horton Company, 53-59 E. Fifth street, Cincinnati, O.

Ratterman & Luth, Cincinnati, O., open and top buggies, phaetons and cut under surreys.

Sayers & Scovill, Cincinnati, O.

Sechler & Co., Cincinnati, O.

Spiral Spring Buggy Company, Cincinnati, O.

Furman Cart Company, Columbiana, O.

U. S. Carriage Company, Columbus, O.

Ohio Buggy Company, Columbus, O., all kinds.

Buckeye Buggy Company, Columbus, O.

Columbus Buggy Company, Columbus, O., all kinds and styles.

Franklin Buggy Company, Columbus, O.

Pioneer Buggy Company, Columbus, O.

Scioto Buggy Company, Columbus, O.

L. & M. Woodhull (Dayton Buggy Works), Dayton, O.

Schlosser Buggy Company, Defiance, O.

Anderson & Harris Carriage Company, Elmwood Place, O.

Fostoria Buggy Company, Fostoria, O.

Order all your wagons with **KING PAT. SEAT SPRINGS** Every pair warranted for two years. See ad. page 185.
It will pay you to handle

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CARRIAGES AND BUGGIES (Continued).

Hamilton Buggy Company, Hamilton, O.
Mansfield Buggy Company, Mansfield, O., all kinds.
Platt Carriage Company, Mansfield, O., all kinds.
McMurray & Fisher Sulky Company, Marion, O.
Kauffman Buggy Company, Miamisburgh, O.
Ward Carriage Company, Newark, O.
D. G. Wyeth, Newark, O.
P. P. Mast Buggy Company, Springfield, O., all kinds.
Springfield Wagon Company, Springfield, O., all kinds.
Milburn Wagon Company, Toledo, O.
Champion Buggy Company, Troy, O., Piano, Eureka.
Troy Carriage Company, Troy, O.
Troy Buggy Works, Troy, O., surreys only.
Youngstown Carriage & Wagon Company, Youngstown, O.
Myers, Humphrey & Company, Franklin, Pa., Myer's Elliptic.
S. E. Baily, Lancaster, Pa.
W. C. Frew, Paradise, Pa., all kinds.
York Carriage Company, York, Pa.
Hoppes & Edwards, Erin, Tenn.
Jonathan Bugbee, Hartford, Vt.
Look & Lincoln, Marion, Va.
A. Wrenn & Sons, Norfolk, Va.
H. H. Hulfish, The Plains, Va.
Ruka Bros. Manufacturing Company, Boscobel, Wis.
D. W. Scobie, Cambridge, Wis.
Northwestern Manufacturing Company, Ft. Atkinson, Wis.
Hirsch Bros., Milwaukee, Wis.
Oshkosh Carriage Company, Oshkosh, Wis.
Fish Bros. Wagon Company, Racine, Wis.
A. McAvoy & Son, Racine, Wis.
Racine Wagon & Carriage Company, Racine, Wis., Racine.
R. N. Rasmussen, Randolph, Wis.
Stoughton Wagon Company, Stoughton, Wis.
La Belle Wagon Works, South Superior, Wis., La Belle.

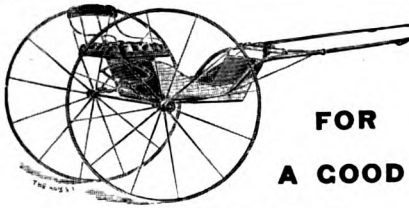
TOP PROPS.

South Bend Top Prop Company, South Bend, Ind., Perfection.

CUTTERS.

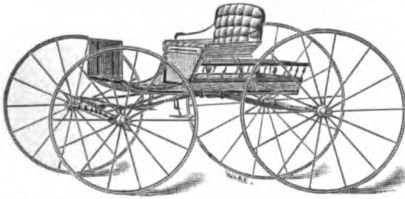
Des Moines Buggy Company, Des Moines, Ia.
Arthur Wood Carriage Company, Grand Rapids, Mich., Portland and Sewell.
J. J. Deal, Jonesville, Mich.
Wickers, DeKruif & Co., Zeeland, Mich.

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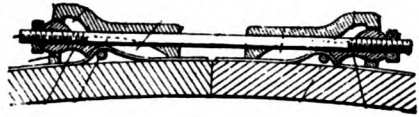


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A GOOD
**CART, CARRIAGE,
BUGGY,
CUTTER OR SLEIGH,**

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Groton Carriage Co.
GROTON, TOMPKINS COUNTY, N. Y.



BELLE CITY ADJUSTABLE Tank Lug or Band Fastener.



These lugs are made to conform to any sized tank. They do away with tapering staves, punching holes, riveting and driving bands. As to ease and rapidity of applying, and changing to proper length, they have no equal.

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JOHN M. SCOTT, - Racine, Wis.

The Account Book.

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FARM IMPLEMENT NEWS COMPANY,
325 Dearborn St., Chicago, Ill.

CUTTERS (Continued).

Binghamton Wagon Company, Binghamton, N. Y.
Kingman, Sturtevant & Tarrabee, Binghamton, N. Y.
Cortland Wagon Company, Cortland, N. Y.
Groton Carriage Company, Groton, N. Y. See ad. above.
Sullivan Bros., Rochester, N. Y., Portland.
R. M. Bingham & Co., Rome, N. Y.
Harvey A. Moyer, Syracuse, N. Y.
Orville H. Short & Co., Syracuse, N. Y., Romans, Russians, Albany.
Jonathan Bugbee, Hartford, Vt.
Northwestern Manufacturing Company, Ft. Atkinson, Wis.
Hirsch Bros., Milwaukee, Wis.
A. McAvoy & Son, Racine, Wis.

ROAD CARTS.

Truman, Hooker & Co., San Francisco, Cal., Petaluma.
W. S. Frazier & Co., Aurora, Ill., Frazier.
W. H. Makutchan, Princeten, Ill., Common Sense.
Staver & Abbott Manufacturing Company, Chicago, Ill., Staver.
Bristol & Gale Company, 32 S. Canal street, Chicago, Ill., Sweepstakes.

Order all your wagons with **KING PAT. SEAT SPRINGS** Every pair warranted for two years. See ad. page 185.

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ROAD CARTS (Continued).

Wayne Sulkyette & Road Cart Company, Decatur, Ill.
D. F. Sargent & Son, Geneseo, Ill., Geneseo.
E. P. Kent & Son, Maroa, Ill., Beauty.
D. M. Sechler Carriage Company, Moline, Ill., B. B.
Vorwick Road Cart Company, Monmouth, Ill.
Gay & Son, Ottawa, Ill.
Kirkwood, Miller & Co., Peoria, Ill.
Peoria Manufacturing Company, Peoria, Ill.
The Eureka Company, Rock Falls, Ill., Eureka.
Miller Bros., Spring Valley, Ill.
Woodard & Hey, Sterling, Ill., Solid Comfort.
Hoffman & Son, Albion, Ind., Hoffman.
Case Buggy Company, Goshen, Ind.
Stutz & Walker, Goshen, Ind.
Parry Manufacturing Company, Indianapolis, Ind., Parry. See page 194.
Creamer & Scott Company, Indianapolis, Ind.
Indianapolis Wagon Company, Indianapolis, Ind.
Lindsay Planter Company, La Fayette, Ind., La Fayette.
Wayne Works, Richmond, Ind., Champion steel cast and phaeton.
Carroll Road Cart Company, Rushville, Ind.
John A. Chockelt, South Bend, Ind.
Colfax Manufacturing Company, South Bend, Ind.
Studebaker Bros. Manufacturing Company, South Bend, Ind.
Huggins & Griffith, Anamosa, Ia., Huggins & Griffith.
Keys Bros., Council Bluffs, Ia.
Des Moines Buggy Company, Des Moines, Ia.
Kratzer Carriage Company, Des Moines, Ia., A. A.
Fred Garberg, Elliott, Ia.
L. Burg Manufacturing Company, Farmington, Ia.
A. McGowen, Independence, Ia.
Warner & Scholes, Knoxville, Ia.
Ketchum Wagon Company, Marshalltown, Ia., Hammock.
Rhoades & Carmean, Marshalltown, Ia.
L. B. Johns, Abilene, Kan.
Laidlaw & Clark Hay Press Manufacturing Company, Cherokee, Kan., Laidlaw & Clark.
F. A. Ames & Co., Owensboro, Ky.
J. T. Clarkson, Amesbury, Mass.
A. P. Ferguson, Ann Arbor, Mich.
Staebler & Elmer, Ann Arbor, Mich., Ann Arbor jump seat.
Armada Cart Company, Armada, Mich.
Battle Creek Road Cart Company, Battle Creek, Mich.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

ROAD CARTS (Continued).

- A. H. Mason, Battle Creek, Mich., Sherman & Reynolds.
 Lewis Cart Company, Detroit, Mich.
 Rumsey Manufacturing Company, Detroit, Mich., Rumsey.
 W. A. Paterson, Flint, Mich., Axtell, Badger.
 Flint Road Cart Company, Flint, Mich., Flint, Jockey's Favorite, Blue Ribbon.
 Collins Manufacturing Company, Jackson, Mich., Collins, Jockey and Columbia.
 See page 196.
- Jno. Anderson & Co., Jackson, Mich.
 Austin, Tomlinson & Webster Manufacturing Company, Jackson, Mich., Webster.
 J. J. Deal, Jonesville, Mich.
 American Cart Company, Kalamazoo, Mich.
 Kalamazoo Wagon Company, Kalamazoo, Mich., The Hicks, Royal.
 Peninsular Carriage Company, Kalamazoo, Mich.
 Noyes Cart Company, Kalamazoo, Mich., road, breaking and speeding carts.
 O. M. Allen, Jr., Buggy Company, Kalamazoo, Mich.
 L. C. Pratt & Co., Kalamazoo, Mich.
 L. C. Lull & Co., Kalamazoo, Mich., Economy, Boss, Premium phaeton cart.
 Winans, Pratt & Co., Kalamazoo, Mich., Perfection, Surprise, Economy.
 Michigan Buggy Company, Kalamazoo, Mich., Easy, Model.
 Bush Road Cart Company, Lansing, Mich.
 R. D. Scott & Co., Muskegon, Mich.,
 Hill Cart Company, Muskegon, Mich.
 Owosso Cart Company, Owosso, Mich., Owosso, Queen, Leader.
 Anderson & Co., Port Huron, Mich.,
 Prouty & Glass Carriage Company, Wayne, Mich.
 Wickers, De Kruif & Co., Zeeland, Mich.
 Calvin Toomey, Kansas City, Mo.
 Geo. K. Oyler & Co., St. Louis, Mo., Peerless, Bruce, Bruce Extra, Springfield,
 Western, Mascot.
 Bauer-Walter Buggy & Carriage Company, St. Louis, Mo.
 Schelp Wagon & Carriage Company, St. Louis, Mo., Royal, Schelp Patent Plat-
 form.
 D. W. Haydock, St. Louis, Mo.
 Haydock Bros., St. Louis, Mo.
 Cortland Cart & Carriage Company, Cortland, N. Y.
 Cortland Wagon Company, Cortland, N. Y.
 Seymour & Nelson, Cortland, N. Y.
 Henry M. Willis, East Williston, L. I., N. Y.
 Groton Carriage Company, Groton, N. Y. See page 199.
 Coleman Carriage & Wagon Company, Ilion, N. Y.

Order all your wagons with **KING PAT. SEAT SPRINGS** Every pair warranted for two years. See ad. page 185.
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ROAD CARTS (Continued).

Lyons Road Cart Company, Lyons, N. Y., Lyons, Nonpareil.
 Chadwick Two-Wheeler Company, Olean, N. Y.
 Whitfield & McCormick, Penn Yan, N. Y.
 Sullivan Bros., Rochester, N. Y., Brighton.
 R. M. Bingham & Co., Rome, N. Y.
 Shortsville Cart Company, Shortsville, N. Y., Favorite.
 Bradley & Co., Syracuse, N. Y., Bradley, Perry.
 Fowler & Farrington, Taughannock Falls, N. Y., Fowler.
 Goundrey Wagon Company, Ltd., Watkins, N. Y., Glen City.
 North Carolina Plow Company, Cary, N. C., Cary Red.
 Connor Bros., Ada, O.
 A. F. Shuler, Arcanum, O., Leader.
 Dexter Wagon Company, Canton, O.
 Chillicothe Buggy Company, Chillicothe, O.
 Cook Carriage Company, Cincinnati, O., adjustable coil spring.
 Enterprise Carriage Manufacturing Company, Cincinnati, O.
 James & Mayer Buggy Company, Cincinnati, O., and Lawrenceburg, Ind., Leader,
 Dream, Phaeton Leader.
 The Emerson & Fisher Company, Cincinnati, O.
 Davis Carriage Company, Cincinnati, O.
 Lippelmann Carriage Company, Cincinnati, O., B-O-E., Hustler.
 Sechler & Co., Cincinnati, O.
 Spiral Spring Buggy Company, Cincinnati, O.
 Buckeye Cart Company, Columbus, O.
 Columbus Buggy Company, Columbus, O.
 Ohio Cart Company, Columbus, O.
 Columbus Cart Company, Columbus, O.
 Anderson & Harris Carriage Company, Elmwood Place, O.
 Blocher Phaeton Company, Lima, O.
 Mansfield Buggy Company, Mansfield, O.
 Portsmouth Cart Company, Portsmouth, O.
 Springfield Wagon Company, Springfield, O., The Best.
 Geo. E. Bechtolt, Urbana, O.
 C. B. Lindsley, Wellington, O.
 D. H. Bausman, Bausman, Pa., Solid Comfort.
 Wm. H. Goodfellow, Hollidaysburgh, Pa., Keystone.
 E. M. Hottenstein, Lebanon, Pa.
 York Carriage Company, York, Pa.
 A. Wrenn & Sons, Norfolk, Va., Excelsior.
 D. W. Scobie, Cambridge, Wis.
 Hirsch Bros., Milwaukee, Wis.
 Racine Wagon & Carriage Company, Racine, Wis.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE," WHEN WRITING TO MANUFACTURERS.

ROAD CARTS (Continued).

Fish Bros., Wagon Company, Racine, Wis.

A. McAvoy & Son, Racine, Wis.

Mitchell & Lewis Company, Ltd., Racine, Wis. See inside back cover.

ROAD WAGONS.

W. S. Frazier & Co., Aurora, Ill.

Weber Wagon Company, Chicago, Ill.

Hoffman & Son, Albion, Ind.

W. H. Kiblinger, Auburn, Ind.

Connersville Buggy Company, Connersville, Ind.

McFarlan Carriage Company, Connersville, Ind.

Case Buggy Company, Goshen, Ind.

Stutz & Walker, Goshen, Ind.

Parry Manufacturing Company, Indianapolis, Ind., Parry. See page 194.

Lindsay Planter Company, La Fayette, Ind., La Fayette.

Wayne Works, Richmond, Ind., Mugwump, Famous.

Terre Haute Carriage & Buggy Company, Terre Haute, Ind.

A. H. Mason, Battle Creek, Mich., Battle Creek.

Rumsey Manufacturing Company, Detroit, Mich., Peerless.

Flint Road Cart Company, Flint, Mich., Prize, Perfection.

W. A. Paterson, Flint, Mich.

Arthur Wood Carriage Company, Grand Rapids, Mich.

Collins Manufacturing Company, Jackson, Mich., Carpenter. See page 196.

American Cart Company, Kalamazoo, Mich., also buckboards.

L. C. Lull & Co., Kalamazoo, Mich., Kalamazoo.

Michigan Buggy Company, Kalamazoo, Mich., Easy, Solid Comfort, buckboards.

Noyes Cart Company, Kalamazoo, Mich.

Winans, Pratt & Co., Kalamazoo, Mich.

Lansing Wagon Works, Lansing, Mich.

C. V. Taylor & Co., Pontiac, Mich.

Binghamton Wagon Company, Binghamton, N. Y., Banner.

Kingman, Sturtevant & Tarrabec, Binghamton, N. Y., also buckboards.

Buffalo Carriage Company, Buffalo, N. Y.

Buffalo Top Company, Buffalo, N. Y., American.

Cortland Cart & Carriage Company, Cortland, N. Y.

Cortland Omnibus & Cab Company, Cortland, N. Y., Wagonettes.

Monarch Wagon Company, McGrawville, N. Y., Little Monarch.

Oneida Carriage Works, Oneida, N. Y.

Sullivan Bros., Rochester, N. Y., Rochester.

Seneca Falls Wagon Company, Seneca Falls, N. Y.

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ROAD WAGONS (Continued).

O. H. Short & Co., Syracuse, N. Y., also buckboards.
 Excelsior Carriage Company, Watertown, N. Y.
 Piedmont Wagon Company, Hickory, N. C.
 Dexter Wagon Company, Canton, O.
 The Bartholomew Company, Cincinnati, O.
 Cook Carriage Company, Cincinnati, O., Lockwood six spring, Wagonettes, Rock-
 aways.
 Lippelmann Carriage Company, Cincinnati, O., Velvet vehicles, equivalent gear
 cut under.
 Columbus Carriage Company, Columbus, O.
 Schlosser Buggy Company, Defiance, O.
 Kauffman Buggy Company, Miamisburgh, O., Kauffman.
 Ward Carriage Company, Newark, O.
 D. G. Wyeth, Newark, O.
 Wyeth & McCully, Newark, O.
 Springfield Wagon Company, Springfield, O., Our Business Wagon
 Myers, Humphrey & Co., Franklin, Pa., Myers.
 Wise Wagon Works, Buena Vista, Va., Wise.
 A. Wrenn & Sons, Norfolk, Va.
 Northwestern Manufacturing Company, Ft. Atkinson, Wis.
 Mitchell & Lewis Company, Ltd., Racine, Wis., Little Monarch. See inside back
 cover.

SULKIES.

W. S. Frazier & Co., Aurora, Ill., Frazier.
 McMurray & Fisher Sulky Company, Marion, O.

BOB SLEIGHS.

Weber Wagon Company, Box 550, Chicago, Ill.
 G. D. Colton & Co., Galesburgh, Ill., Hercules.
 Peter Sames, Rockford, Ill.
 Sterling Manufacturing Company, Sterling, Ill., Champion, Victor (Mundt patent)
 steel knee, oscillating; Sterling frame knee.
 A. B. Spies, Sterling, Ill.
 A. Coquillard (estate of) South Bend, Ind., Coquillard.
 A. A. Cooper, Dubuque, Ia.
 Cass & McArthur, Harlan, Ia.
 Rough Bros. Wagon Works, Buchanan, Mich.
 The Castree-Mallery Company, Flint, Mich., Kurr, Star, Bench.
 Henry M. Smith, Frankfort, Mich.
 Arthur Wood Carriage Company, Grand Rapids, Mich.
 E. Bement & Sons, Lansing, Mich., Maine, Brown, Knee, Bench.
 Lansing Wagon Works, Lansing, Mich., Brown's patent, loose-jointed.

MENTION "FARM IMPLEMENT NEWS BUYER'S GUIDE." WHEN WRITING TO MANUFACTURERS.

BOB SLEIGHS (Continued).

A. Bostick, Millington, Mich.

Wilder Manufacturing Company, Monroe, Mich., Oviatt's.

Donaldson Bros., Mt. Clemens, Mich., Bench and Knee, oscillating.

Otter Lake Iron Works (Blackinton & Till), Otter Lake, Mich.

Mitts & Merrill, Saginaw, Mich.

Wickers, De Kruif & Co., Zeeland, Mich.

Sumner Manufacturing Company, Hutchinson, Minn., Sumner's Independent runner.

Clayton Plow Works Company, Minneapolis, Minn.

Anderson Bros., Moorhead, Minn.

Red Wing Wagon Company, Red Wing, Minn., Standard.

St. Paul Plow Works, St. Paul, Minn., Mainite, Mandt.

Mast, Buford & Burwell Company, St. Paul, Minn.

Keller Manufacturing Company, Sauk Centre, Minn., First Premium.

Winona Wagon Company, Winona, Minn., Mennonite, Oscillator.

B. W. Bramer, Fabius, N. Y.

Groton Carriage Company, Groton, N. Y. See page 199.

Coleman Carriage & Wagon Company, Ilion, N. Y.

Walker Manufacturing Company, Moravia, N. Y.

A. Bailey, Sand Lake, N. Y.

Burton Handle Company, Burton, O., Crosby patent.

Wyeth & McCully, Newark, O.

Sutton Bros. & Bell, Indiana, Pa.

Snoebergers & Bassler, Martinsburgh, Pa.

Lee Bros., Watertown, S. Dak., Watertown.

Jonathan Bugbee, Hartford, Vt.

Ruka Bros. Manufacturing Company, Boscobel, Wis.

Gesley Bros. Manufacturing Company, Beloit, Wis.

D. W. Scobie, Cambridge, Wis., Cambridge.

B. F. & H. L. Sweet, Fond du Lac, Wis., Common Sense, Arctic, Manitoba.

La Belle Wagon Works, South Superior, Wis., La Belle, oscillating.

Northwestern Manufacturing Company, Ft. Atkinson, Wis.

L. O. Amondson, Gratiot, Wis.

Smith Manufacturing Company, La Crosse, Wis., La Crosse.

Hirsch Bros., Milwaukee, Wis.

A. P. Dickey Manufacturing Company, Racine, Wis., Dickey. See page 70.

Hurlbut Manufacturing Company, Racine, Wis. See page 108.

Stoughton Wagon Company, Stoughton, Wis.

Winchester & Partridge Manufacturing Company, Whitewater, Wis.

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LUMBER TRUCKS.

Niles & Scott Company, La Porte, Ind.

LIGHT SLEIGHS.

Staver & Abbott Manufacturing Company, Chicago, Ill.

La Porte Wood Manufacturing Company, La Porte, Ind.

S. R. Bailey & Co., Amesbury, Mass., all styles.

Arthur Wood Carriage Company, Grand Rapids, Mich.

A. C. Bruce, Lapeer, Mich.

A. Bostick, Millington, Mich.

Kingman, Sturtevant & Tarrabee, Binghamton, N. Y.

Homer Wagon Company, Ltd., Cortland, N. Y.

Groton Carriage Company, Groton, N. Y. See page 199.

Coleman Carriage & Wagon Company, Ilion, N. Y.

R. M. Bingham & Co., Rome, N. Y., all styles.

Harvey A. Moyer, Syracuse, N. Y.

Orville H. Short & Co., Syracuse, N. Y., Romans, Russians, Albany.

Jonathan Bugbee, Hartford, Vt.

Northwestern Manufacturing Company, Ft. Atkinson, Wis.

WATER TRUCKS.

E. S. & F. Bateman, Grenloch, N. J.

RUNNER ATTACHMENTS FOR VEHICLES.

Mason's Carriage Works, Davenport, Ia., Mason's patent.

Wyeth & McCully, Newark, O., Wyeth's patent adjustable.

TONGUE SUPPORTS.

Weber Wagon Company, Box 550, Chicago, Ill.

Haggard Wagon Spring Company, La Fayette, Ind.

WASHING MACHINES.

Trappe Bros., Mascoutah, Ill., Sucker State.

H. H. Palmer & Co., Rockford, Ill., Acme.

Bluffton Manufacturing Company, Bluffton, Ind., American.

W. H. Neff, Cowan, Ind., Perfection.

Horton Manufacturing Company, Fort Wayne, Ind., Western.

H. Dickinson & Son, Lowell, Ind.

H. F. Brammer Manufacturing Company, Davenport, Ia., Brammer.

J. G. Henderson & Co., Keokuk, Ia., Improved Doty, Practical.

A. C. Clark & Co., Manchester, Ia., Hunt's I. X. L.

M. Flook & Bro., Myersville, Md., Huffer.

Chas. G. Allen & Co., Barre, Mass., Paragon.

B. Wright & Son, Hudson, Mich., Triumph.

A. C. Bruce, Lapeer, Mich.

Curtis Manufacturing Company, Albion, N. Y., Burke's.

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WASHING MACHINES (Continued).

Wiard & Eggleston, East Avon, N. Y., Mitchell.
 Vandergrift Manufacturing Company, Jamestown, N. Y., New Improved Western.
 Empire Washer Company, Jamestown, N. Y., Empire, Western Empire.
 Gilbert Lockhart, Bryan, O.
 M. Brown & Co., Wapakoneta, O., Ohio, United States.
 The F. F. Adams Company, Erie, Pa., Keystone.
 Moses P. Flanders, Sharon, Vt., Flanders.
 Johnson & Field Company, Racine, Wis.
 Winship Manufacturing Company, Racine, Wis., The Best. See page 210.

WRINGERS.

W. H. Neff, Cowan, Ind., Perfection.
 Empire Washer Company, Jamestown, N. Y., Falcon Queen.
 G. S. Foos Company, Springfield, O., New Champion, Buckeye, Perfect.

WATER WHEELS.

The Edward Harrison Mill Company, New Haven, Conn.
 De Loach Mill Manufacturing Company, Atlanta, Ga., turbine.
 Rome Foundry & Machine Works, Rome, Ga., Davis double turbine.
 Novelty Iron Works, Dubuque, Ia. See page 208.
 J. P. Hussey, Gilmanton Iron Works, N. H., King of the Valley.
 F. A. Murphy, Delhi, N. Y., U. S., Challenge.
 Gowanda Agricultural Works Company, Gowanda, N. Y., Setter's turbine.
 Genesee Valley Manufacturing Company, Mt. Morris, N. Y., Bodine, Jonval. See page 82.
 Sergeant Manufacturing Company, Greensborough, N. C., Farrar turbine.
 Jas. Leffel & Co., Springfield, O., turbine.]
 Leffel Water Wheel & Engine Company, Springfield, O., The Old Reliable James Leffel double turbine.
 Valley Iron Works Manufacturing Company, Appleton, Wis., New Elmer.
 B. H. & J. Sanford, Sheboygan Falls, Wis., Improved Walsh turbine.

THE ACCOUNT BOOK.

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 Horse Powers,
 Mill Machinery,
 Portable Saw Mills,
 Power Jacks,
 Wood Saws,
 Stump Pullers,
 Water Wheels,
 Iron Fences,
 Building Castings.

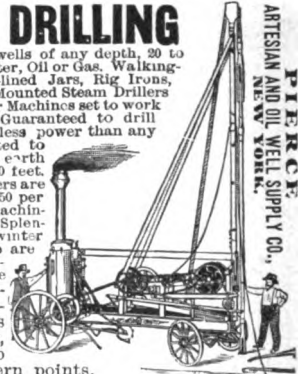
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DUBUQUE, IA.

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Machinery, for wells of any depth, 20 to 4,000 feet, for Water, Oil or Gas. Walking-beam Rigs, Steel-lined Jars, Rig Irons, Pines, &c. Our Mounted Steam Drillers and Horse Power Machines set to work in 20 minutes. Guaranteed to drill faster and with less power than any other. Is adapted to drilling wells in earth or rock, 50 to 1,000 feet. Farmers and others are making \$25 to \$50 per day with our machinery and tools. Splendid business for winter or summer. We are the largest manufacturers in the business. Machines delivered to all parts of the country, freight paid to leading Western points.



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Pierce Artesian & Oil Well Supply Co.
New York.

WEEDERS.

Benicia Agricultural Works, Benicia, Cal., Benicia.

Comstock Bros., East Hartford, Conn., Comstock's combined seed sower, cultivator and weeder.

Universal Weeder Company, North Weare, N. H., Breed's Universal weeder and cultivator, and Improved hand weeder.

Auburn Manufacturing Company, Auburn, N. Y.

WELL DRILLING MACHINERY.

American Well Works, Aurora, Ill., all kinds.

Globe Well Works, Ottawa, Ill., Teetzel.

E. W. Walker & Co., Goshen, Ind.

Flint & Walling Manufacturing Company, Kendallville, Ind., Hoosier.

Novelty Iron Works, Dubuque, Ia., Dubuque. See ad. above.

Pech Manufacturing Company, Storm Lake, Ia., down and mounted augers.

Morgan, Kelly & Taneyhill, Waterloo, Ia., Standard, Monarch, Hydraulic and Osage.

Ft. Scott Foundry & Machine Works, Ft. Scott, Kan.

Kalamazoo Tubular Well Company, Kalamazoo, Mich.

Sumner Manufacturing Company, Hutchinson, Minn.

W. Z. Haight, Winnebago City, Minn., Haight's.

St. Louis Well Machine & Tool Company, St. Louis, Mo.

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WELL DRILLING MACHINERY (Continued).

M. K. Lewis & Sons, Hastings, Neb., Lewis hand and Reliable horse outfit.
 Rust Artesian Well Company, Ithaca, N. Y., Empire.
 Treman, Waterman & Co., Ithaca, N. Y., Ithaca.
 Williams Bros., Ithaca, N. Y. See page 65.
 A. D. Peck, Jordan, N. Y.
 Pierce Artesian & Oil Well Supply Company (Chas. E. Pierce), No. 80 Beaver street,
 New York, N. Y., Pierce artesian and oil well machinery. See page 208.
 Goulds Manufacturing Company, Seneca Falls, N. Y., and 60 Barclay street, New
 York, N. Y.
 Star Drilling Machine Company, Akron, O., Star, also well supplies.
 The Deming Company, Salem, O.
 Loomis & Nyman, Tiffin, O.
 Oil Well Supply Company, Ltd., Pittsburgh, Pa.
 Gray Bros., 245 and 247 Clinton street, Milwaukee, Wis.

WELL POINTS AND WELL SUPPLIES.

Challenge Wind Mill & Feed Mill Company, Batavia, Ill.
 Morris Drive Well Point Company, Chicago, Ill., Morris, Perfection and Banner.
 Monitor Manufacturing Company, Auburn, Ind.
 Flint & Walling Manufacturing Company, Kendallville, Ind.
 Novelty Iron Works, Dubuque, Ia. See page 208.
 Pech Manufacturing Company, Storm Lake, Ia.
 Strait Manufacturing Company, Kalamazoo, Mich.
 Dempster Mill Manufacturing Company, Beatrice, Neb.
 Rust Artesian Well Company, Ithaca, N. Y.
 The Deming Company, Salem, O.
 Oil Well Supply Company, Ltd., Pittsburgh, Pa.
 Gray Bros., 245 and 247 Clinton street, Milwaukee, Wis.
 Oshkosh Pump Company, Oshkosh, Wis.

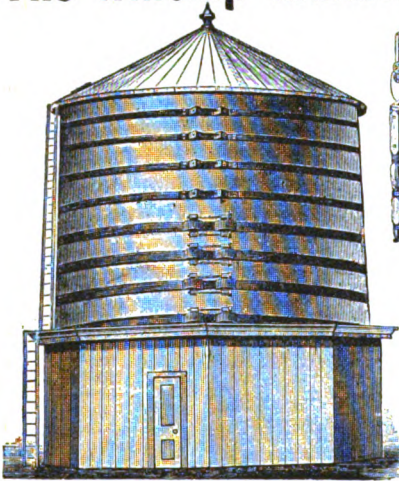
WIND MILLS.

John Reese, Florin, Cal.
 Stearns Manufacturing Company, Los Angeles, Cal., Regulator.
 Pacific Manufacturing Company, San Francisco, Cal., Cyclone pumping and geared.
 F. W. Krogh & Co., San Francisco, Cal., Economy, Eureka, Eagle.
 Byron Jackson, San Francisco, Cal., California.
 J. N. Knox, San Jose, Cal., Golden Gate.
 A. M. Abbott, Stockton, Cal., Abbott.
 Jno. Stowell, Stockton, Cal., Relief.

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The Winship Manufacturing Co., Racine, Wis.



Elevated Tank.



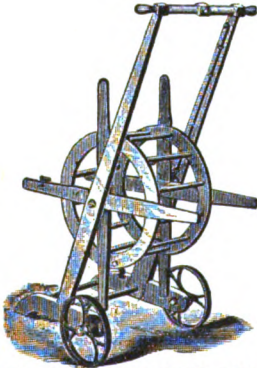
The Best Washing Machine



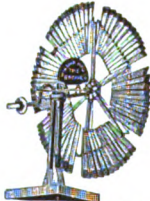
Wooden Pump, for deep and shallow wells. (All sizes.)



Half Round Stock Tank. (All sizes.)



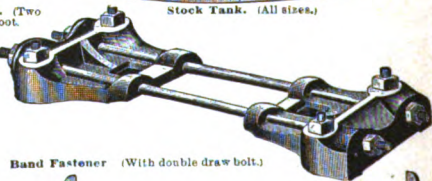
Racine Hose Reel. (With adjustable ratchet.)



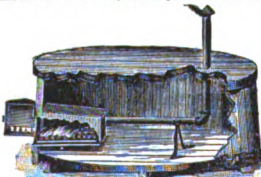
The Racine Wind Mill. (Two sizes, ten and twelve foot.)



Stock Tank. (All sizes.)



Band Fastener (With double draw bolt.)



Tank Heater. (For burning wood.)

The Belle City Hand Corn Planter



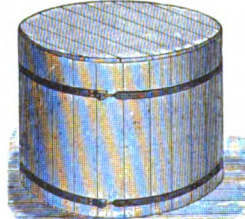
The Badger Bolster Springs. (All sizes.)



Tenon Cutter. (For wood pump tubing.)



Band Fastener. (With single draw bolt.)



Creamery Tub.



Band Fastener for round iron

The Champion Hand Corn Planter with Pumpkin Seed Attachment.

The Winship Manufacturing Co., Racine, Wis.

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WIND MILLS (Continued).

American Well Works, Aurora, Ill., Advance.

Batavia Wind Mill Company, Batavia, Ill.

Challenge Wind Mill & Feed Mill Company, Batavia, Ill., Challenge, Peerless and O. K.

U. S. Wind Engine & Pump Company, Batavia, Ill., Halladay Standard, U. S. solid wheel and Standard vaneless. See page 212.

Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Fort Worth, Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.

Star Manufacturing Company, Carpentersville, Ill., Butler.

Fairbanks, Morse & Co., Chicago, Ill., Eclipse and Eclipse Junior. See page 213.

Automatic Mower & Manufacturing Company, Chicago, Ill., Harvey.

Charles Kaestner & Co., 811 S. Canal street, Chicago, Ill., Giant.

Elgin Wind Power & Pump Company, Elgin, Ill., Centennial.

Lamb & Co., Freeport, Ill., Stover, Lamb, Zenith pumping, Zenith geared. See page 92.

Stover Manufacturing Company, Freeport, Ill., Ideal and Ideal Junior.

Woodmanse & Hewitt Manufacturing Company, Freeport, Ill., Woodmanse.

G. D. Colton & Co., Galesburgh, Ill., Victor.

May Bros., Galesburgh, Ill.

Aera Manufacturing Company, Henry, Ill., Aera.

L. Leach (Leach Wind Mill Company), Joliet, Ill., Leach Standard, Vaneless Governor, Illinois Star.

Marseilles Manufacturing Company, Marseilles, Ill., Adams pumping and geared, Splendid solid wheel pumping. See page 36.

C. H. Miller, Millington, Ill., Miller.

Gustave Wenzelmann, Missal, Ill.

Mt. Pulaski Wind Mill Company, Mt. Pulaski, Ill., Yankee.

Avery Planter Company, Peoria, Ill., Industrious.

Jones, Woodruff & Co., Rockford, Ill., I. X. L.

Springer & Gregory, Rockford, Ill., I. X. L.

Goodhue Wind Engine Company, St. Charles, Ill., Goodhue pumping and geared.

Sandwich Enterprise Company, Sandwich, Ill., Enterprise, Climax, Regulator, Sandwich-Perkins, The Winner. See page 166.

Clark & Co., Somonauk, Ill., Improved California.

E. B. Winger, South Chicago, Ill., New Royal.

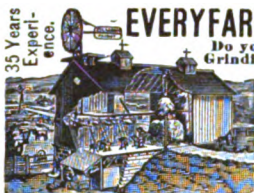
R. J. Douglas & Co., Waukegan, Ill.

Zimmerman Manufacturing Company, Auburn, Ind., Monarch wind engines.

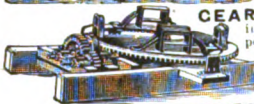
Monitor Manufacturing Company, Auburn, Ind., Improved Monitor wind engines.

Order all your wagons with **KING PAT. SEAT SPRINGS** Every pair warranted for two years. See ad. page 185.
It will pay you to handle

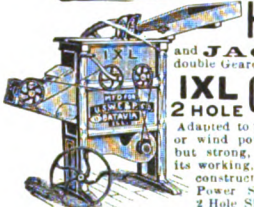
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Experience.**EVERY FARMER HIS OWN MILLER**

Do your own Shelling and Grinding at Home, saving tolls and teaming to and from the Grist Mill. This work can be done rainy, windy days, when out-door work is suspended on the farm. The same Mill will cut corn stalks, saw wood, run churn, grindstone, pump water, etc. We make the



HALLADAY GEARED MILL in 11 sizes, 1½ to 40 horse power, and GUARANTEE they have no equal for Power, Durability and Storm-Defying Qualities.

**Horse Powers**

and **JACKS** both single and double Geared, made heavy and strong.

**IXL CORN Sheller**

Adapted to run by hand, horse, steam or wind power. Not cheaply made, but strong, durable and effective in its working, yet light running. It is constructed similar to the large Power Shellers, and is the best 2 Hole Sheller on the market.

**SAW TABLES**

Both Swinging and Sliding Tables. We make a Saw Table especially adapted to sawing long poles. Special care is taken to make these machines strong and durable.

**THE IXL STALK CUTTER**

made in 5 sizes, with Safety Fly Wheel, Safety Lever, and all late improvements.

**THE IXL IRON FEED MILL**

3 sizes, both Belt and Geared Mills. Can be run by any power, and especially adapted to Wind Power. Will grind any kind of grain, and is the lightest running and most effective Feed Grinder made.

**IXL TANK HEATER**

For warming water in Stock Tanks. Made of the best quality of iron cast in one piece, no sheet iron to rust or solder to melt and cause leak. Will burn any kind of fuel. It is very effective and takes less care to operate than any other Heater made.

All Goods Guaranteed. Send for Catalogue and Prices.

U. S. WIND ENGINE & PUMP CO., Batavia, Illinois, U.S.A.

Branch houses—Kansas City, Mo.; Omaha, Neb. Depots—Fort Worth, Tex.; Boston, Mass

35 YEARS
Experience**WIND MILLS**

THE HALLADAY MILL is acknowledged the Standard Wind Mill of the World, and is made in 13 sizes, 5 to 60 ft. diameter, 1 man to 40 horse power. It is adapted to pumping water for Stock and Dairy Farms, Ornamental and Village Water Supply and Fire Protection, Railway Water Stations, Irrigation, Drainage, Etc.

THE HALLADAY is made upon honor and guaranteed **The Most Powerful, Durable and Best Regulated Storm-Defying Wind Mill** on the market.

**U. S. SOLID WHEEL**

And **STANDARD**

VANELESS WIND MILLS

These Mills are guaranteed the BEST of their class. Are not made cheaply, but heavy and strong in construction. They are rapidly taking the lead of all Solid and Vaneless Mills on the market.

**PUMPS**

We make a complete line of **WIND MILL, HAND and POWER PUMPS, Iron, Brass and Brass-Lined CYLINDERS. Our 3 Way Force Pumps** have no equal.

**TANKS**

We make the largest assortment of Tanks on the market, consisting of Round, Half Round and Square Stock Tanks, Milk Cooling Tanks, Storage and House Tanks. Special sizes made to order.

**STANDARD HAY TOOLS**

For stacking out in fields and mowing away in barns. The use of a good Hay Carrier and Fork a few hours before a storm may save many times their cost. We make the most complete line of **Horae Hay Tools** on the market, consisting of Anti-Friction, Swivel, Reversible and Rod Hay Carriers, Harpoon and Grapple Hay Forks, Pulleys, Floor Hooks, etc.

WIND MILLS (Continued).

Butler Manufacturing Company, Butler, Ind., Butler.
Eagle Manufacturing Company, Decatur, Ind., Eagle.
Globe Implement Company, Goshen, Ind., Globe.
Howe Pump & Engine Company, Indianapolis, Ind.
Flint & Walling Manufacturing Company, Kendallville, Ind., Star, Cyclone.
Lima Manufacturing Company, Lima, Ind., Queen.
W. H. Aldrich, Logansport, Ind., Aldrich pumping and power mills.
Perkins Wind Mill & Ax Company, Mishawaka, Ind., Perkins and Surprise.
Rex Manufacturing Company, North Manchester, Ind., Rex.

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TANKS. ECLIPSE PUMPS.
WIND MILLS
WROUGHT IRON PIPE & FITTINGS.
FAIRBANKS, MORSE & CO.,
ST. LOUIS, CHICAGO, KANSAS CITY, ST. PAUL, OMAHA,
DENVER, CLEVELAND, CINCINNATI, LOUISVILLE, INDIANAPOLIS.

WIND MILLS (Continued).

F. B. Stearns & Co., Rushville, Ind., pumping and power, Stearns.
 Samuel Paxton, Boone, Ia.
 Decorah Wind Mill Company, Decorah, Ia., Decorah pumping and power.
 Carter Bros., Des Moines, Ia., Carter.
 Keokuk Wind Engine Company, Keokuk, Ia., Aldrich, Keokuk.
 Empire Manufacturing Company, Keokuk, Ia., Daisy.
 Pech Manufacturing Company, Storm Lake, Ia., Hawkeye.
 Kirkwood Manufacturing Company, Arkansas City, Kan., Kirkwood steel.
 R. S. Scott, Peabody, Kan., Little Joker and Corliss.
 Sunflower Wind Mill Company, Topeka, Kan., Sunflower.
 Topeka Wind Mill Manufacturing Company, Topeka, Kan.
 Progress Engine & Machine Works, Summerfield, Md., Kirkwood iron wind engine.
 Dana Wind Engine Company, Fairhaven, Mass., pumping and geared, Dana Centrifugal.
 Union Wind Mill & Manufacturing Company, Albion, Mich.
 James C. Keith, Battle Creek, Mich., Keith.
 Industrial Manufacturing Company, Buchanan, Mich., Improved Buchanan.
 Strait Wind Mill Company, Galesburg, Mich., Strait.
 Barlow & Youmans, Galesburgh, Mich., B. & Y.
 Williams Manufacturing Company, Kalamazoo, Mich., Manvel.
 The Phelps & Bigelow Wind Mill Company, Kalamazoo, Mich., I. X. L. with double rim patent wheel.
 Smith & Pomeroy, Kalamazoo, Mich., Eureka.
 Plymouth Iron Wind Mill Company, Plymouth, Mich., Hamilton.
 H. N. Hill, Pontiac, Mich., iron.
 F. W. Winter & Co., Faribault, Minn., Hazen.
 Diamond Feed Mill Manufacturing Company, Owatonna, Minn., Hazen.
 Dempster Mill Manufacturing Company, Beatrice, Neb.

Order all your wagons with **KING PAT. SEAT SPRINGS** Every pair warranted for two years. See ad. page 185.

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**"WAUPUN" or "ALTHOUSE" Vaneless Pumping Wind Mills,
 "WAUPUN" or "ALTHOUSE" Geared Wind Mills,
 "WAUPUN" Grinding Mills,
 "WAUPUN" Patent Premium Pumps,
 WATER TANKS, all Sizes.**

WRITE —

**The Althouse - Wheeler Co., Waupun, Wis.
 Or Cor. 10th and Hickory Sts., Kansas City, Mo.**

WIND MILLS (Continued).

Spencer Manufacturing Company, Blue Springs, Neb.
 Geneva Iron & Wind Mill Company, Geneva, Neb., Geneva.
 Geo. F. Kregel, Nebraska City, Neb., Eli.
 W. Wetherbee, Barre Centre, N. Y., Reliance wind engine, Wetherbee Storm De-
 fying.
 Geo. Wallenbeck, Ithaca, N. Y., Wallenbeck.
 A. D. Peck, Jordan, N. Y., Strait.
 Andrew J. Corcoran, 76 John street, New York, N. Y.
 Pierce Artesian & Oil Well Supply Company, 80 Beaver street, New York, N. Y.,
 Pierce.
 Foote & Co., Nunda, N. Y., Climax pumping and geared wind mill.
 J. H. McLain Machine Company, Canton, O., Pfouts.
 Hess, Snyder & Co., Massillon, O., Novelty.
 Superior Machine Company, Springfield, O.
 Mast, Foos & Co., Springfield, O., Iron Turbine wind engines.
 Springfield Machine Company, Springfield, O., Leffel's wind engines.
 Kelly & Sons, Troy, O., Troy.
 C. A. Miller, Urbana, O., Improved Climax.
 H. L. Bennett & Co., Westerville, O., Fountain.
 D. H. Bausman, Bausman, Pa., New Times pumping mills, New Times geared
 mills.
 Wise Wagon Works, Buena Vista, Va., Virginia.
 Gilbert Hunt & Co., Walla Walla, Wash., Manvel.
 Eclipse Wind Engine Company, Beloit, Wis., pumping and geared, Eclipse and
 Eclipse Junior.
 Duplex Wind Mill Company, Brooklyn, Wis., Duplex Vaneless, Solid Wheel and
 Crown Wheel pumping and Duplex Balanced geared mills.
 O. G. Stowell, Delavan, Wis., U. S. Star.
 Baker Manufacturing Company, Evansille, Wis., Monitor vaneless, pumping,
 Monitor solid wheel pumping and swivel geared.

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WIND MILLS (Continued).

Cornish, Curtis & Greene, Ft. Atkinson, Wis., Reliance with vane, Favorite vaneless.

Haskins Manufacturing Company, Lake Geneva, Wis., Reibe.

Winship Manufacturing Company, Racine, Wis., and Churchill Pump Company, Omaha, Neb., Racine. See page 210.

The Althouse-Wheeler Company, Waupun, Wis., Waupun vaneless, Milo and Milo Giant solid wheel pumping mills, Waupun geared mills. See page 214.

Winchester & Partridge Manufacturing Company, Whitewater, Wis., Badger and Tuckwood.

POWER ATTACHMENTS FOR WIND MILLS.

Progress Engine & Machine Works, Summerfield, Md.

Little Giant Power Converter Company, Cincinnati, O.

Duplex Wind Mill Company, Brooklyn, Wis., Duplex power converter.

WIND MILL FLOAT VALVES.

Fairbanks, Morse & Co., Chicago, Ill. See page 163.

Sandwich Enterprise Company, Sandwich, Ill., Enterprise reversible. See page 166.

Monitor Manufacturing Company, Auburn, Ind.

Flint & Walling Manufacturing Company, Kendallville, Ind.

Carter Bros., Des Moines, Ia., Carter's.

Barlow & Youmans, Galesburg, Mich.

Dempster Mill Manufacturing Company, Beatrice, Neb.

WIND MILL REGULATORS.

Fairbanks, Morse & Co., Chicago, Ill. See page 213.

Stover Manufacturing Company, Freeport, Ill., Ideal.

Hunt, Helm & Ferris, Harvard, Ill., Star.

Sandwich Enterprise Company, Sandwich, Ill., Enterprise. See page 166.

E. B. Winger, South Chicago, Ill., Get There.

Monitor Manufacturing Company, Auburn, Ind.

Zimmerman Manufacturing Company, Auburn, Ind., Little Giant.

Flint & Walling Manufacturing Company, Kendallville, Ind.

Industrial Manufacturing Company, Buchanan, Mich.

Foote & Co., Nunda, N. Y.

BAND FASTENERS FOR WIND MILL TANKS.

John M. Scott, Racine, Wis., Belle City adjustable. See page 199.

Winship Manufacturing Company, Racine, Wis. See page 210.

TUBE EXPANDERS.

Ajax Manufacturing Company, Pittsburgh, Pa., Collins. See page 48.

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WOOD SAWING MACHINES.

Benicia Agricultural Works, Benicia, Cal., Benicia.
 Stover Manufacturing Company, Freport, Ill., Ideal.
 Seward Company, Bloomington, Ind., Drag.
 Greencastle Foundry & Machine Company, Greencastle, Ind., Culver's Iron
 Drag.
 Robinson & Co., Richmond, Ind.
 Novelty Iron Works, Dubuque, Ia., Granger, Railway. See page 208.
 Carpenter & Genung, Independence, Ia., Clipper.
 J. S. Johnson, Waukon, Ia., circular.
 Whitman Agricultural Works, Auburn, Me.
 H. A. Currier, Almont, Mich., drag and circular.
 Battle Creek Machinery Company, Battle Creek, Mich., Battle Creek self-feed.
 Grand Rapids Manufacturing & Implement Company, Grand Rapids, Mich., Valley.
 See page 79.
 Wilson & Hendrie, Montague, Mich.
 Morton Manufacturing Company, Romeo, Mich., Monarch.
 R. R. Howell & Co., Minneapolis, Minn.
 W. Z. Haight, Winnebago City, Minn., Haight's.
 Kingsland & Douglas Manufacturing Company, St. Louis, Mo.
 Whitman Agricultural Company, St. Louis, Mo., Whitman's drag saw, slide and
 swing tables.
 Curtis & Co. Manufacturing Company, St. Louis, Mo.
 Hiram Deats, Jr., Pittstown, N. J.
 Minard Harder, Cobleskill, N. Y. See page 179.
 Gowanda Agricultural Works Company, Gowanda, N. Y., Gowanda and Totman's.
 W. Eddy & Sons, Greenwich, N. Y.
 St. Johnsville Agricultural Works, St. Johnsville, N. Y., drag saws.
 The Westinghouse Company, Schenectady, N. Y., circular saws, drag saws.
 C. Wakefield & Son, Theresa, N. Y., Wakefield's.
 American Foundry & Machine Company, Bowling Green, O., drag Champion.
 David Eley, Jr., Lake Fork, O.
 G. S. Foos Company, Springfield, O., Clipper, one man cross-cut.
 Daniel Hulshizer, Doylestown, Pa., Doylestown.
 Krauss Bros., Geryville, Pa.
 Heebner & Sons, Lansdale, Pa., Daisy circular and Heebner drag.
 E. B. Marsh & Bro., Snedersville, Pa.
 A. W. Gray's Sons, Middletown Springs, Vt., circular and drag saws.
 St. Albans Foundry, St. Albans, Vt., drag and circular.
 B. F. Rollins, St. Johnsbury, Vt., circular and drag.
 Appleton Manufacturing Company, Appleton, Wis., and Chicago, Ill., drag saws
 and Common Sense and New Style Pole wood saws. See page 90.
 Valley Iron Works Manufacturing Company, Appleton, Wis.

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WOOD SAWING MACHINERY. (Continued).

Duplex Wind Mill Company, Brooklyn, Wis., Farmer's Friend.
 Baker Manufacturing Company, Evansville, Wis., Monitor.
 Smith Manufacturing Company, La Crosse, Wis.
 Smalley Manufacturing Company, Manitowoc, Wis., Champion self-feed drag.
 Richards Iron Works, Manitowoc, Wis.
 Peter Fischer, Milwaukee, Wis., geared circular.
 Foster & Williams, Racine, Wis. See page 85.
 Kohler, Hayssen & Stehn Manufacturing Company, Sheboygan, Wis., circular and drag.
 Winchester & Partridge Manufacturing Company, Whitewater, Wis.

SAW FRAMES.

Sandwich Manufacturing Company, Sandwich, Ill.
 Novelty Iron Works, Dubuque, Ia. See page 208.
 B. Gill & Son, Trenton, N. J., circular saw and frame.
 Slusser-McLean Scraper Company, Sidney, O., Giant bolting and Boss drag.
 J. I. Case Threshing Machine Company, Racine, Wis.
 Foster & Williams, Racine, Wis. See page 85.

SAW GUMMERS.

Ajax Manufacturing Company, Pittsburgh, Pa., Standard and I. X. L. See page 48

WINE PRESSES.

Sucker State Drill Company, Belleville, Ill.
 Hercules Lever Jack Company, Irvington, N. J., Tichenor's hand power.
 E. S. & F. Bateman, Grenloch, N. J.
 Hydraulic Press Manufacturing Company, Mt. Gilead, O.
 Sandusky Machine & Agricultural Works, Sandusky, O., Kromer's patent.
 Hauck & Comstock, Mechanisburgh, Pa. See page 42.

WOOL PRESSES.

The Price Hay Press Company, San Leandro, Cal., and Racine Wis., Monarch.
 Hercules Lever Jack Company, Irvington, N. J.
 Cardwell Machine Company, Richmond, Va., Hydraulic.

WHEELBARROWS.

Benicia Agricultural Works, Benicia, Cal., Benicia.
 Blount & Bell, East Point, Ga.
 E. W. Walker & Co., Goshen, Ind.
 Jacob Strayer & Co., South Bend, Ind.
 Whitman Agricultural Works, Auburn, Me., all kinds.

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WHEELBARROWS (Continued).

- Frank E. Fitts Manufacturing & Supply Company, 76 Pearl street, Boston, Mass., steel.
- Taylor & Gale, Chicopee Falls, Mass., garden.
- Rose Manufacturing Company, Adrian, Mich.
- Grand Rapids Wheelbarrow Company, Grand Rapids, Mich., Unicycle, Gem, Star and Roland railroad or canal.
- Withington & Cooley Manufacturing Company, Jackson, Mich., canal, stone and salt.
- Lansing Wheelbarrow Company, Lansing, Mich.
- A. C. Bruce, Lapeer, Mich., Garden.
- P. K. Dederick & Co., Albany, N. Y.
- S. L. Rockwell & Co., Jordan, N. Y.
- John H. Dakin, Schenectady, N. Y.
- Kemp & Burpee Manufacturing Company, Syracuse, N. Y., Syracuse.
- North Carolina Plow Company, Cary, N. C., Harrison.
- Piedmont Wagon Company, Hickory, N. C.
- Bryan Manufacturing Company, Bryan, O., Champion, Champion Junior, Champion King, Ideal Garden, Ideal Mortar, Abdallah Park, Fay's Combined.
- Frey-Sheckler Company, Bucyrus, O., brick and tile.
- Kilbourne & Jacobs Manufacturing Company, Columbus, O., Jacobs' patent bolted steel, tubular iron frames.
- American Steel Scraper Company, Sidney, O., American, Monarch, steel tray wheelbarrows, with both wood and tubular iron frames. See page 178.
- Geo. W. Thomas & Co., Toledo, O., all kinds.
- Columbia Agricultural Works, Columbia, Pa.
- Jackson Manufacturing Company, Harrisburg, Pa.
- H. H. Hulfish, The Plains, Va.

SAW TABLES.

- Challenge Wind Mill & Feed Mill Company, Batavia, Ill.
- U. S. Wind Engine & Pump Company, Batavia, Ill. See page 212.
- Branch houses—Kansas City, Mo., Omaha, Neb. Special agencies—Staver & Walker, Portland, Ore., E. K. Green, Los Angeles, Cal., Panhandle Machinery & Implement Company, Fort Worth, Tex., Geo. G. Creamer, 80 S. Market street, Boston, Mass.
- Fairbanks, Morse & Co., Chicago, Ill., Eclipse. See pages 163 and 213.
- W. Sandiford, Joliet, Ill.
- Novelty Iron Works, Dubuque, Ia. See page 208.
- Hildreth Bros., Harvard, Mass.
- D. T. H. MacKinnon, Menasha, Wis., Globe.
- Foster & Williams, Racine, Wis. See page 85.

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TRANSFER AND STORAGE HOUSES.

Danver Bros., Dover, Del.

S. B. Baker & Co., Alton, Ill.

Banks Agricultural & Transfer Company, 51 S. Jefferson street, Chicago, Ill.

Peoria Transfer & Storage Company, Peoria, Ill.

Dickson Storage & Transfer Company, Indianapolis, Ind.

Union Transfer & Storage Company, Indianapolis, Ind.

Henry H. Van Brunt, Council Bluffs, Ia.

John Clausen, Council Bluffs, Ia.

Ainsworth & Bonbright, Des Moines, Ia.

Southern Warehouse & Transfer Company, Louisville, Ky.

Union Transfer & Storage Company, Detroit, Mich.

Gangelhoff, Jennings & Co., St. Paul, Minn.

McPheeters Warehouse Company, 1104 to 1115 Levee, St. Louis, Mo.

A. M. Brown & Co., St. Joseph, Mo.

Graham, Stringfellow & Lake, St. Joseph, Mo.

Midland Storage Company, St. Joseph, Mo.

Henry H. Van Brunt, Omaha, Neb.

Dodgson, Wilder & Cooley, Batavia, N. Y.

Dewey & Abel Bros., Buffalo, N. Y.

Buffalo Storage & Carting Company, Buffalo, N. Y.

Central Union Transfer & Storage Company, Rochester, N. Y. See index to ads.

Metropolitan Transfer Warehouse, Rochester, N. Y.

Collins & Murphy, Grand Forks, N. Dak.

Ohio Transfer & Storage Company, Columbus, O.

Engelke & Bigelow, Columbus, O.

Cleveland Storage Company, Cleveland, O.

Rauh Storage & Transfer Company, Dayton, O.

Moreton Truck & Storage Company, Toledo, O.

Montgomery & Co., Harrisburg, Pa.

Harrisburg Storage & Transfer Company, Harrisburg, Pa.

Safety Storage, Van & Packing Company, Philadelphia, Pa.

Owen Craven & Co., Philadelphia, Pa.

W. A. Hoeveler, Pittsburgh, Pa.

Union Storage Company, Pittsburgh, Pa.

Chipman & Page, Sioux City, S. Dak.

Southern Transfer & Storage Company, Nashville, Tenn.

W. J. Ellsworth, Madison, Wis.

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WOOD SPLITTERS.

Hildreth Bros., Harvard, Mass.

Curtis & Co. Manufacturing Company, St. Louis, Mo.

STEEL HARROW TEETH.

Chicago Steel Works, 806 Noble street, Chicago, Ill.

Harrow Spring Company, Kalamazoo, Mich., spring harrow teeth.

Kalamazoo Spring & Axle Company, Kalamazoo, Mich.

L. C. Lull & Co., Kalamazoo, Mich., spring harrow teeth.

H. N. Hubbard, 96 Chambers street, New York, N. Y.

CORN HARVESTERS.

(For other names see page 40.)

Wilcox Corn Harvester Company, Kansas City, Mo.

K. C. Rotary Harrow & Vehicle Company, Kansas City, Mo.

H. McDonald, Bellefontaine, O., Peterson.

BINDER TWINE.

(For other names see page 19.)

Sewell & Day Cordage Company, 88 Commercial street, Boston, Mass.

Planet Mills, 83 Leonard street, New York, N. Y.

Ohio Cordage Company, Xenia, O.

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